

Fig. 1

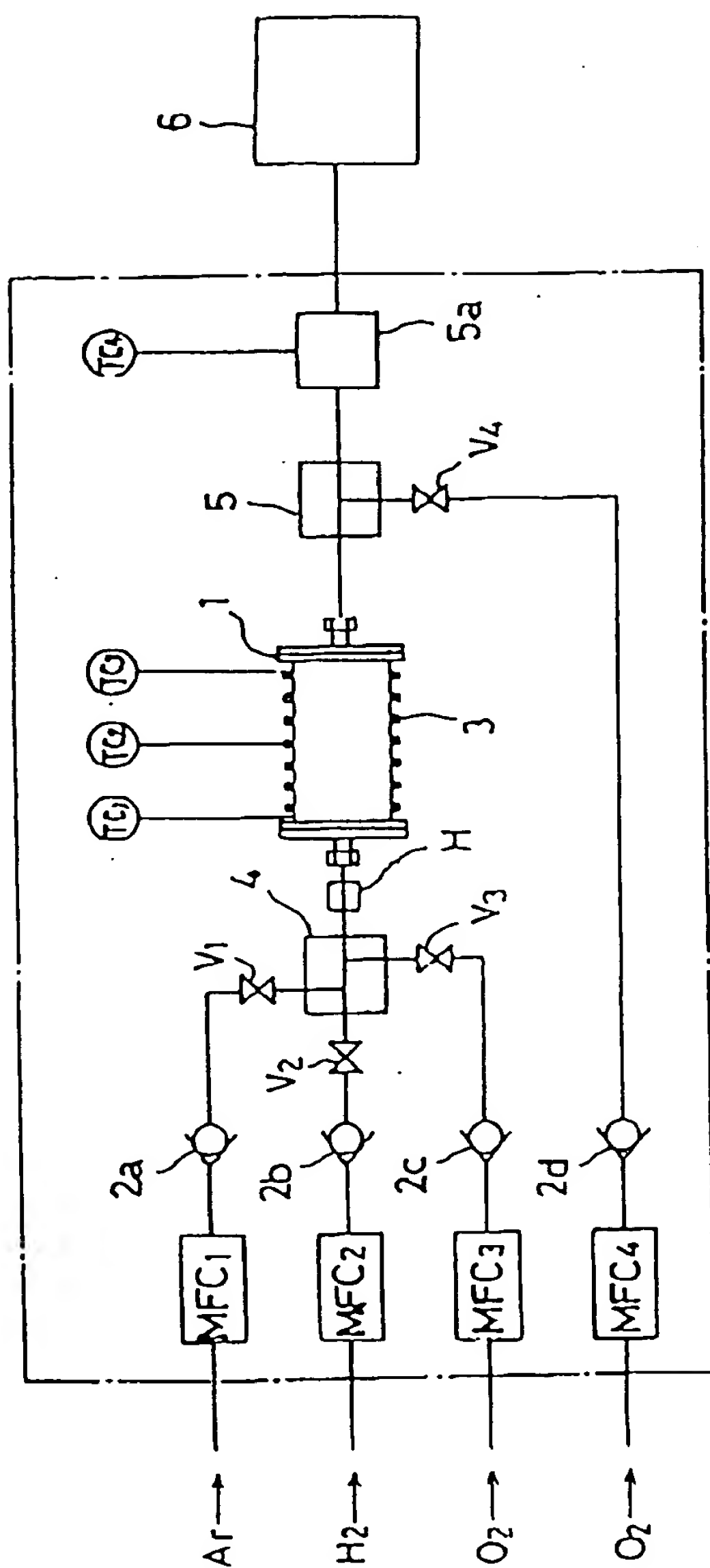




Fig. 2

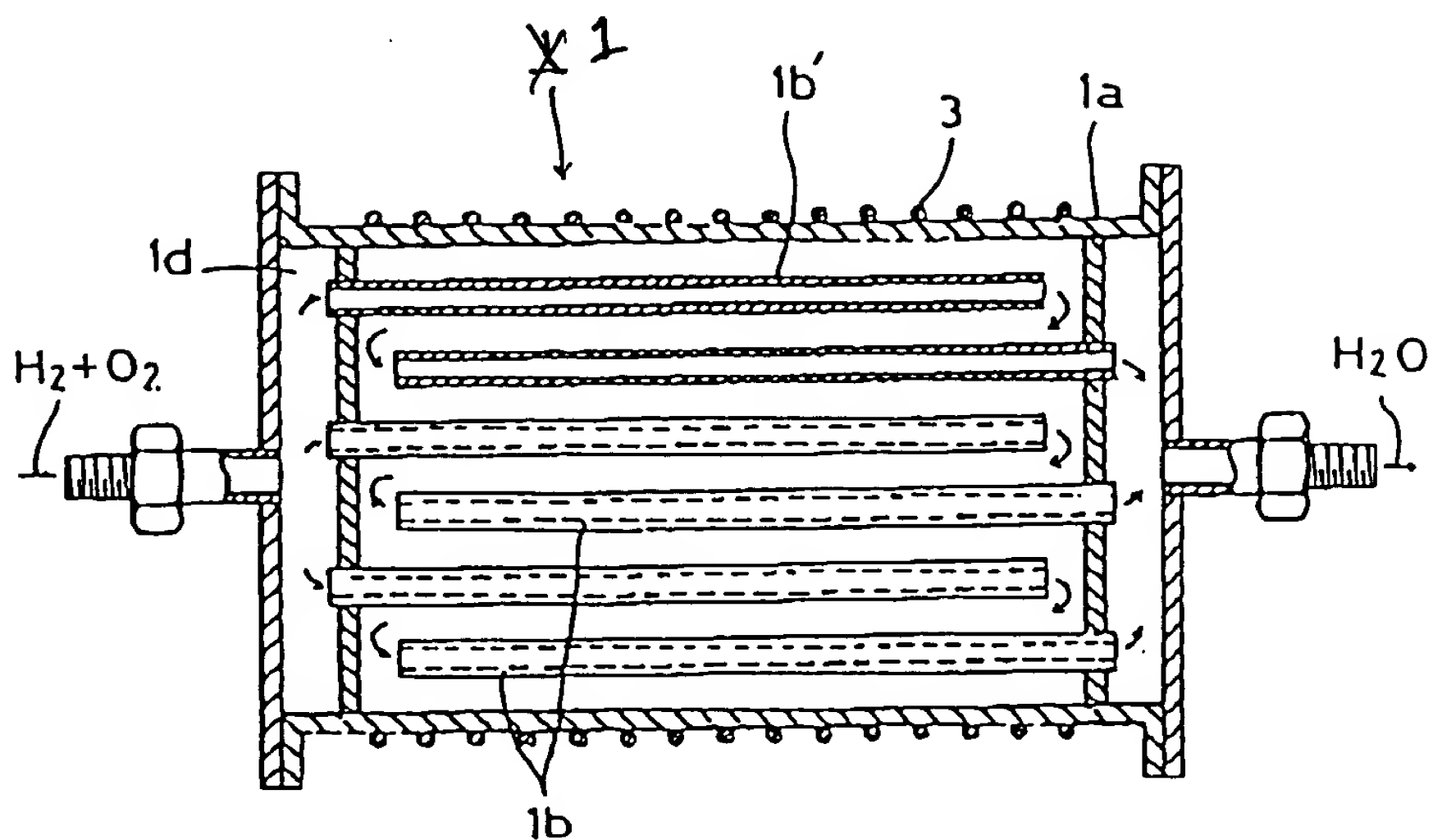


Fig. 3

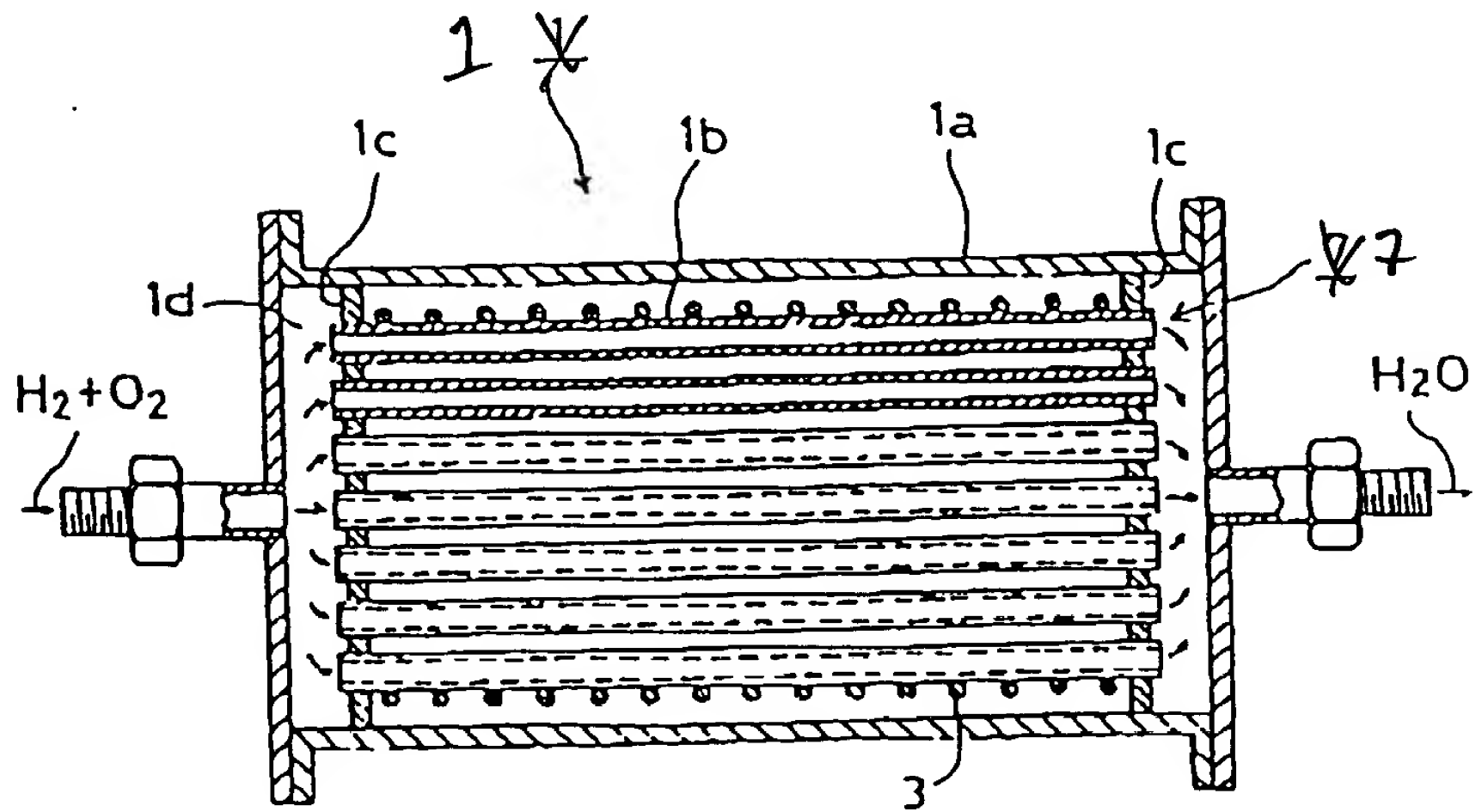


Fig. 4

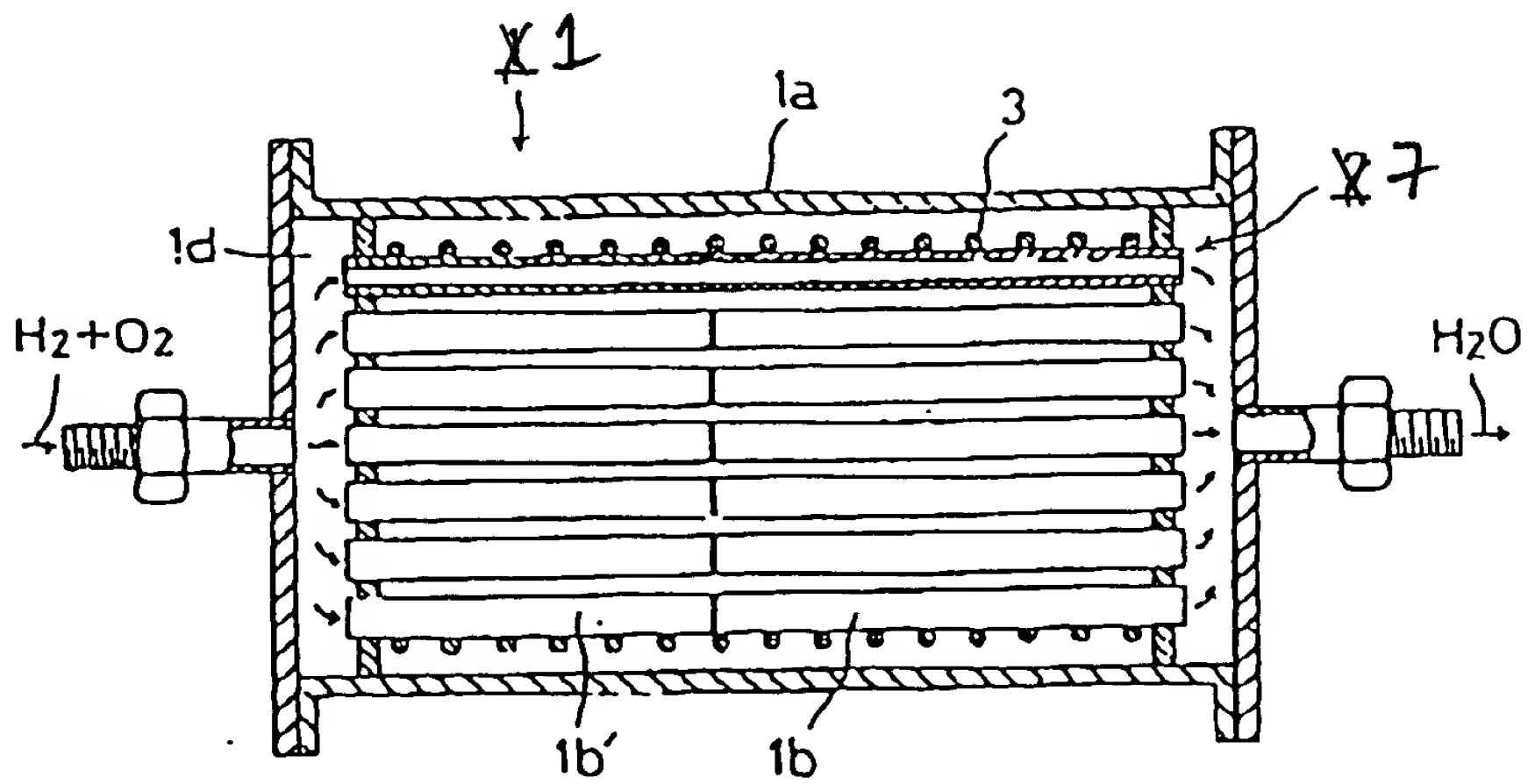


Fig. 5

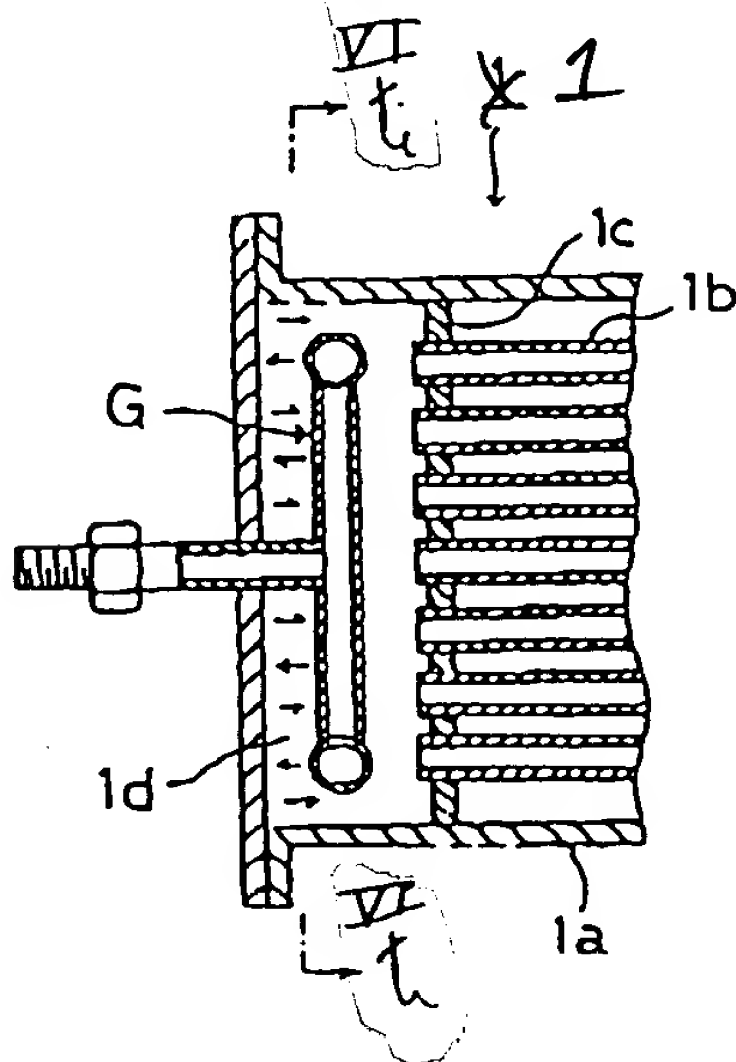


Fig. 6

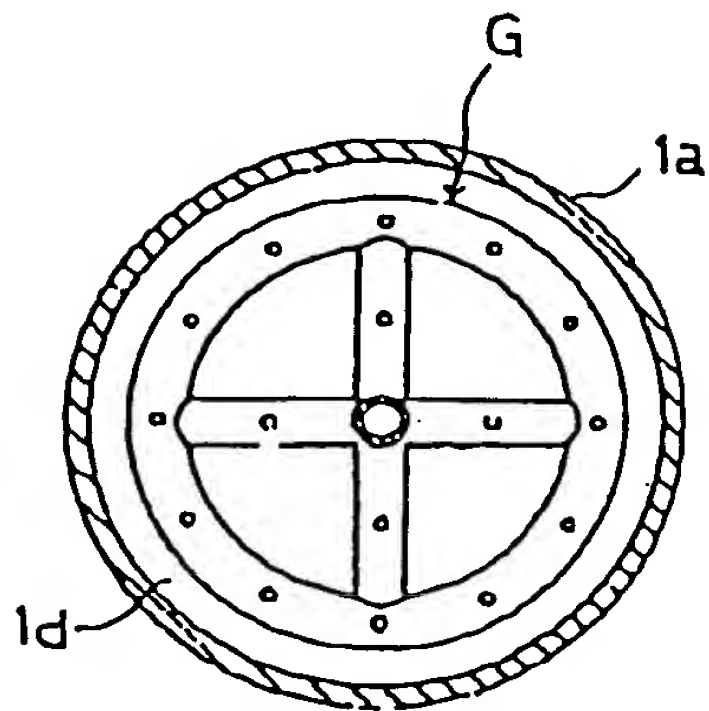


Fig. 7

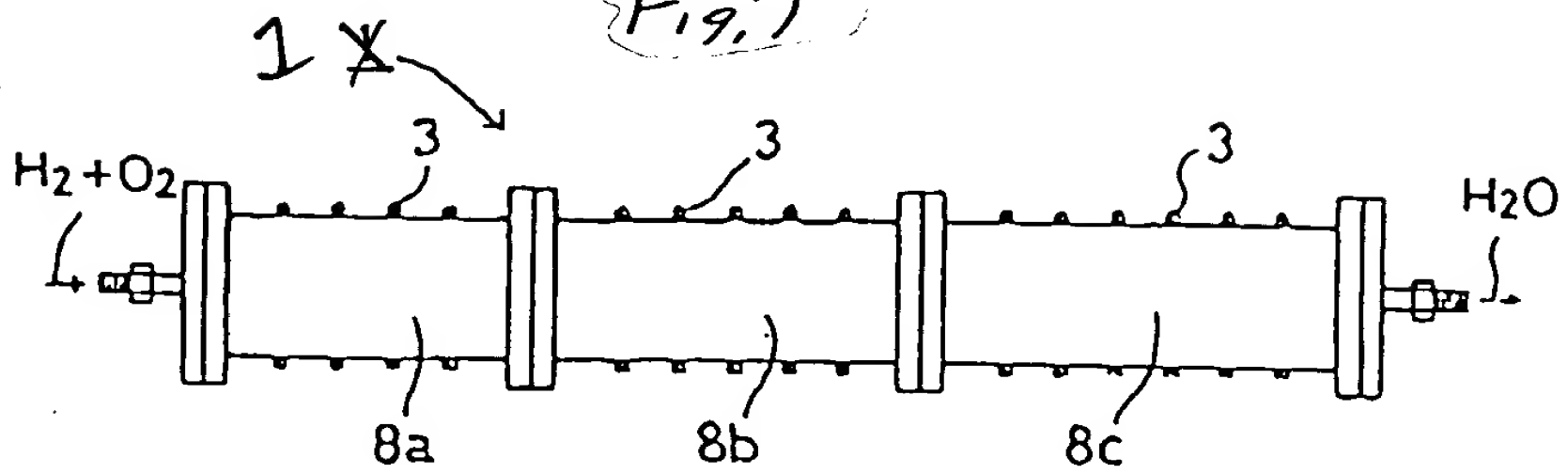


Fig. 8

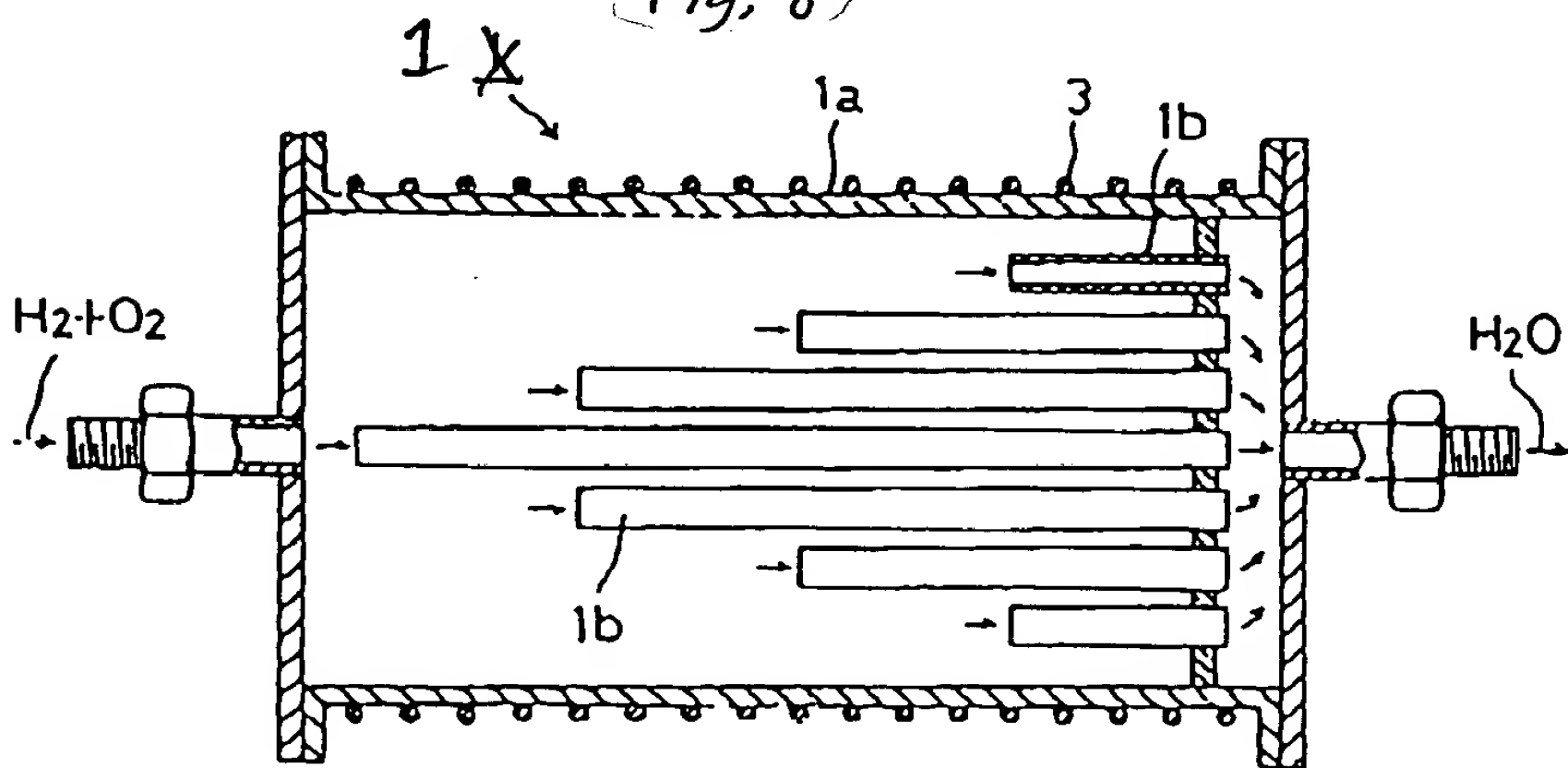
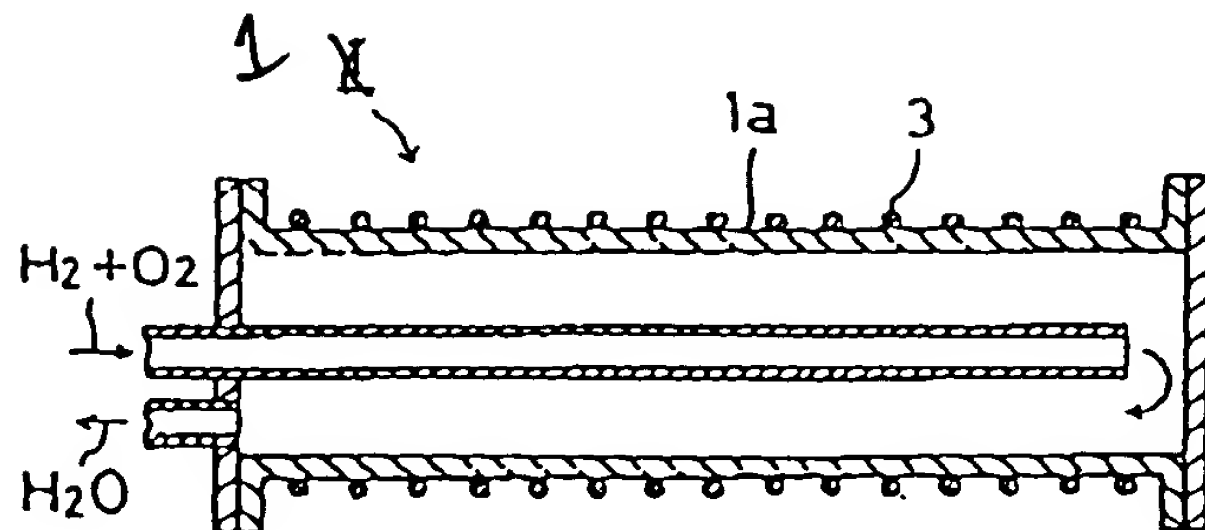




Fig. 9,
~~Fig. 9~~



~~Fig. 10~~ Fig. 10

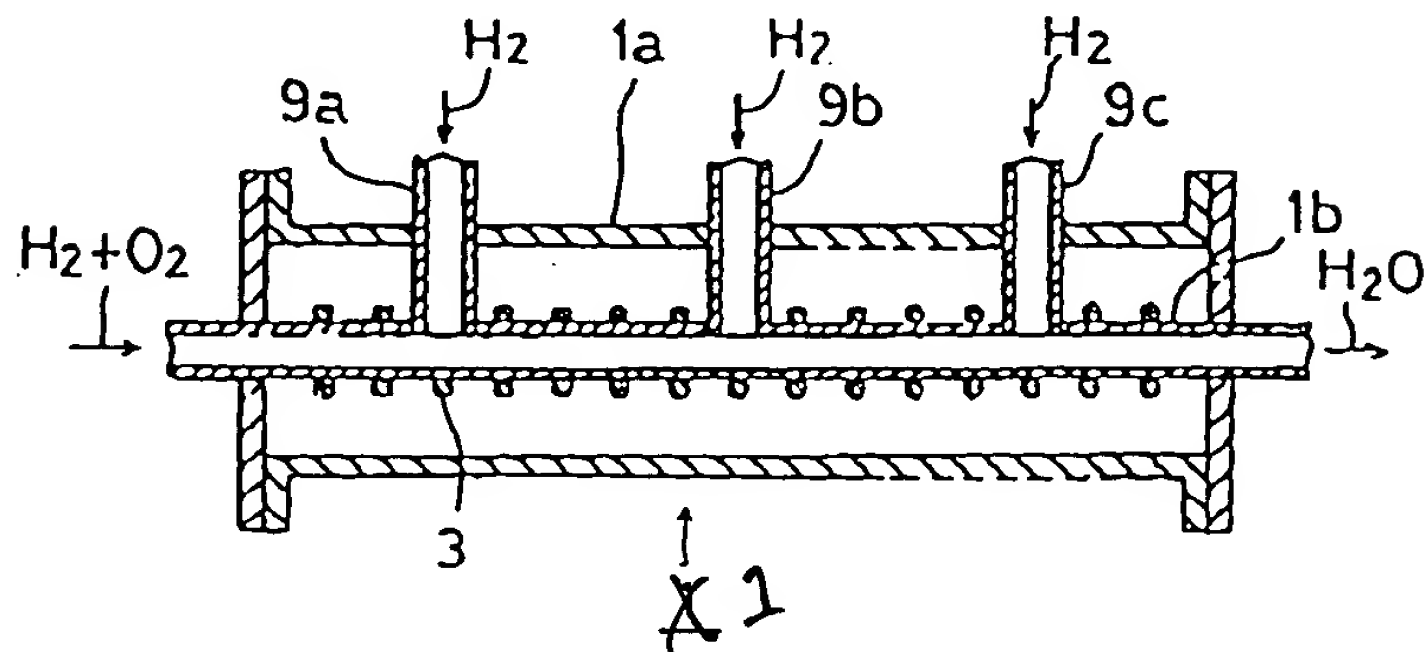


Fig. 11
~~Fig. 11~~

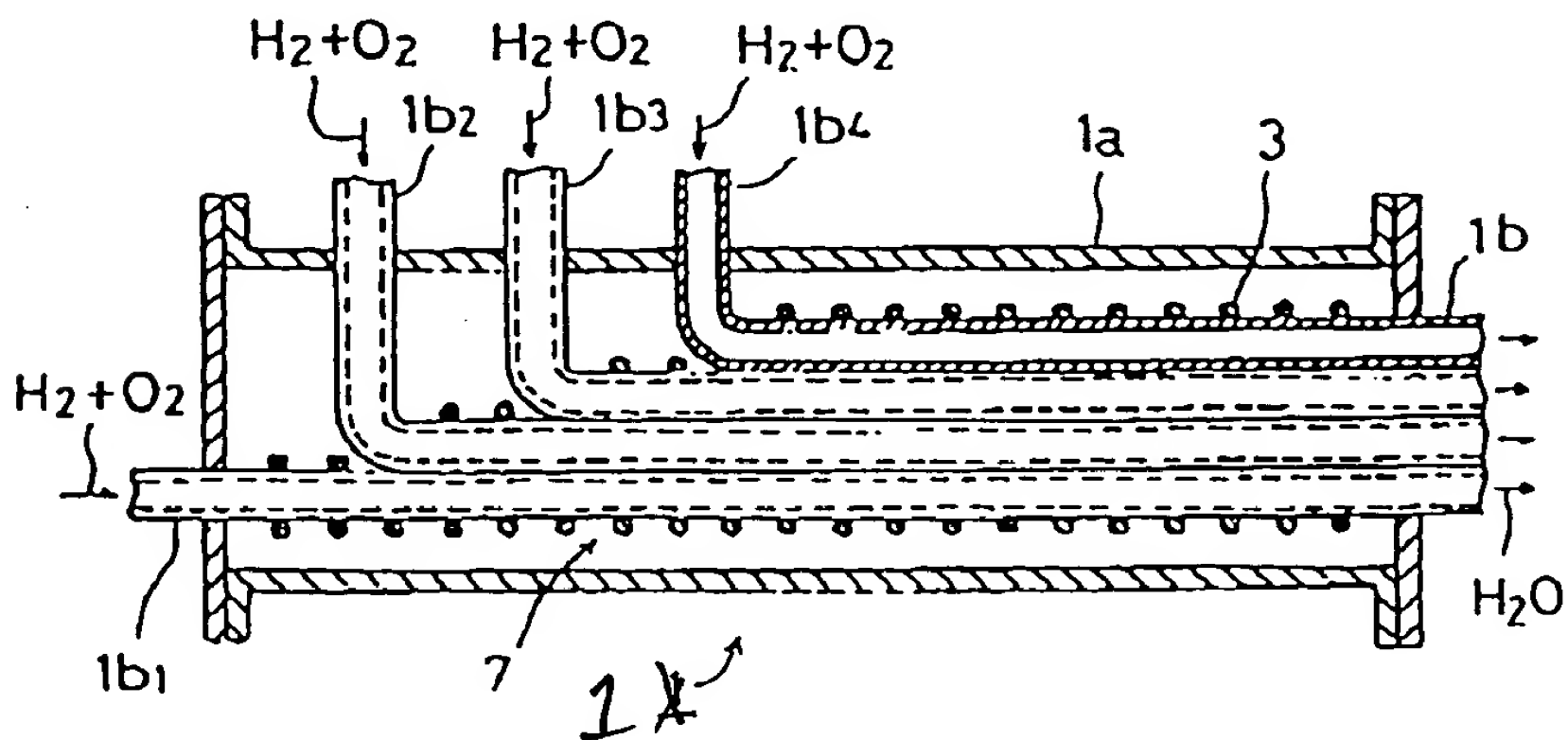
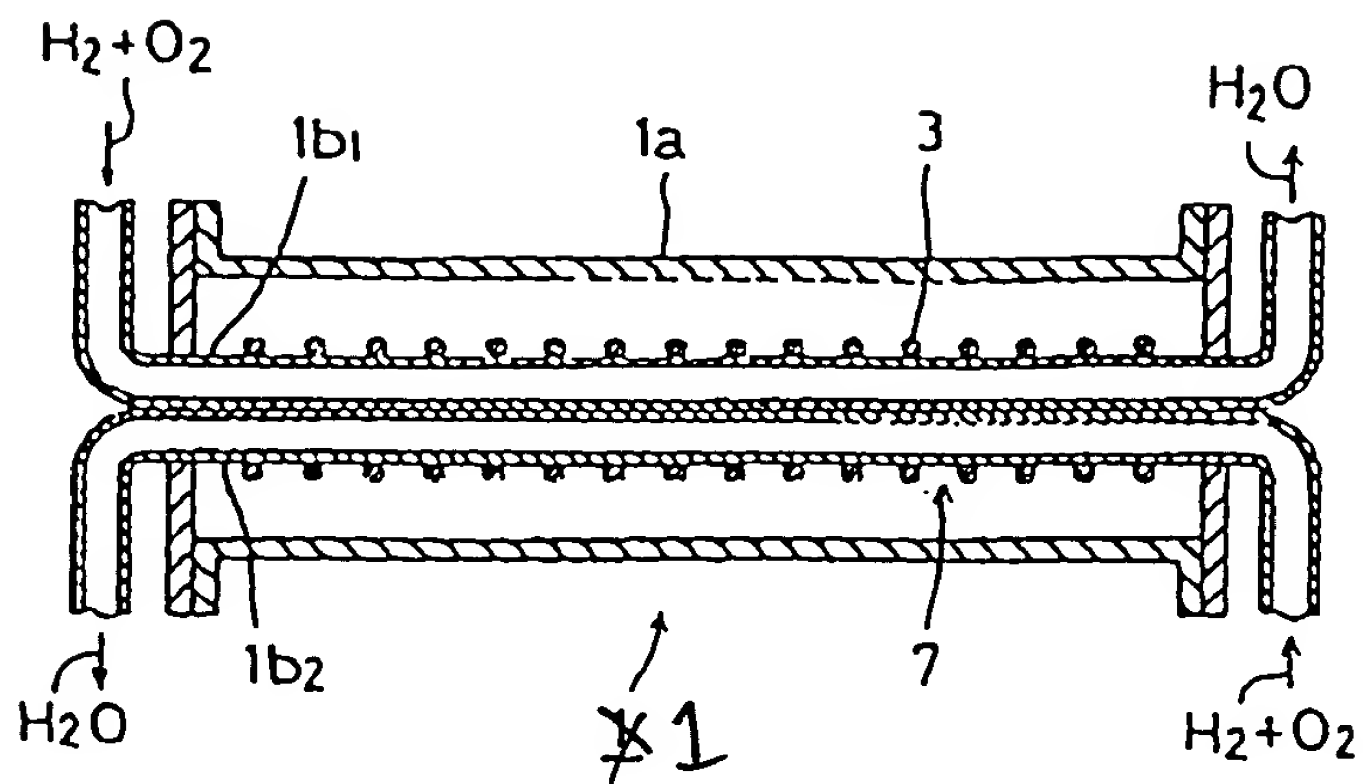




Fig. 12

~~12~~



~~13~~

Fig. 13

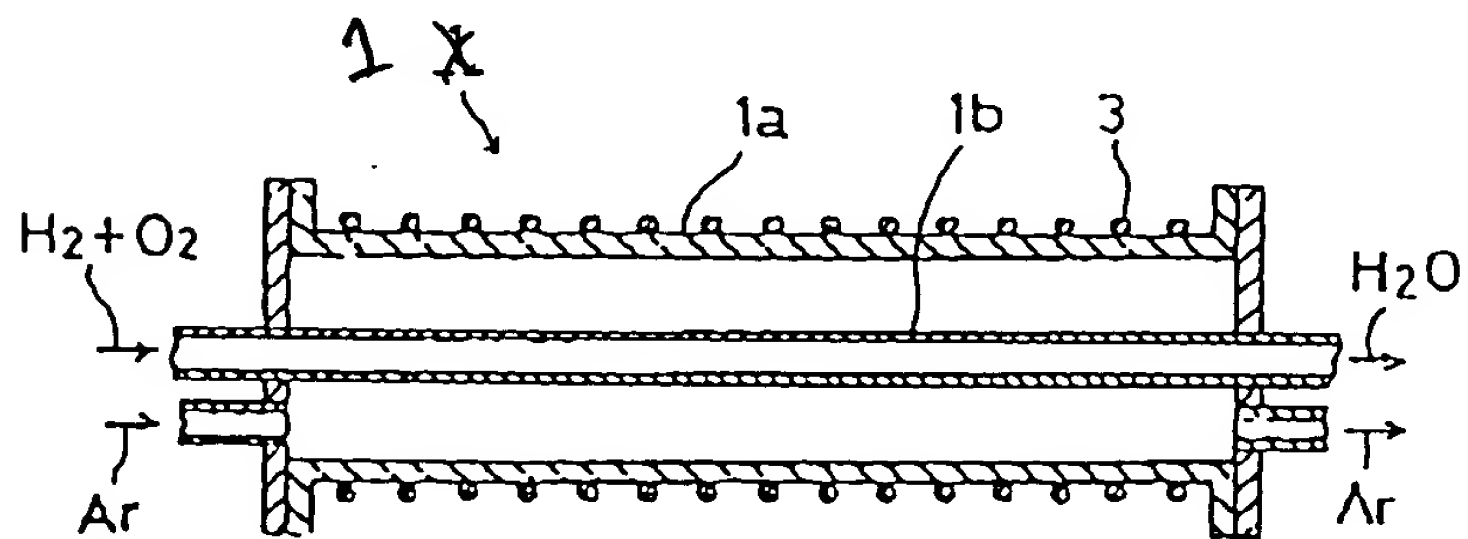


Fig. 14
14

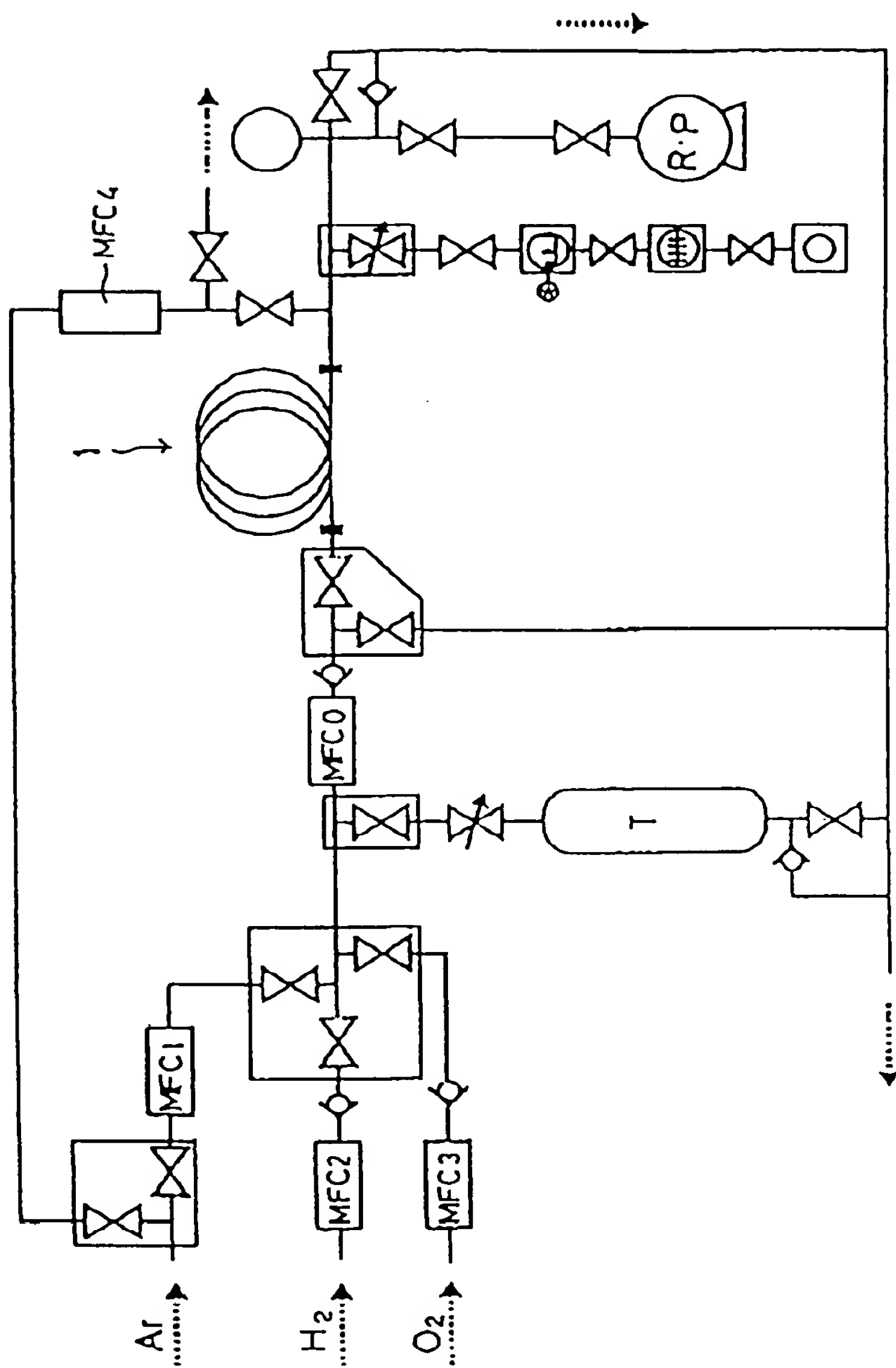
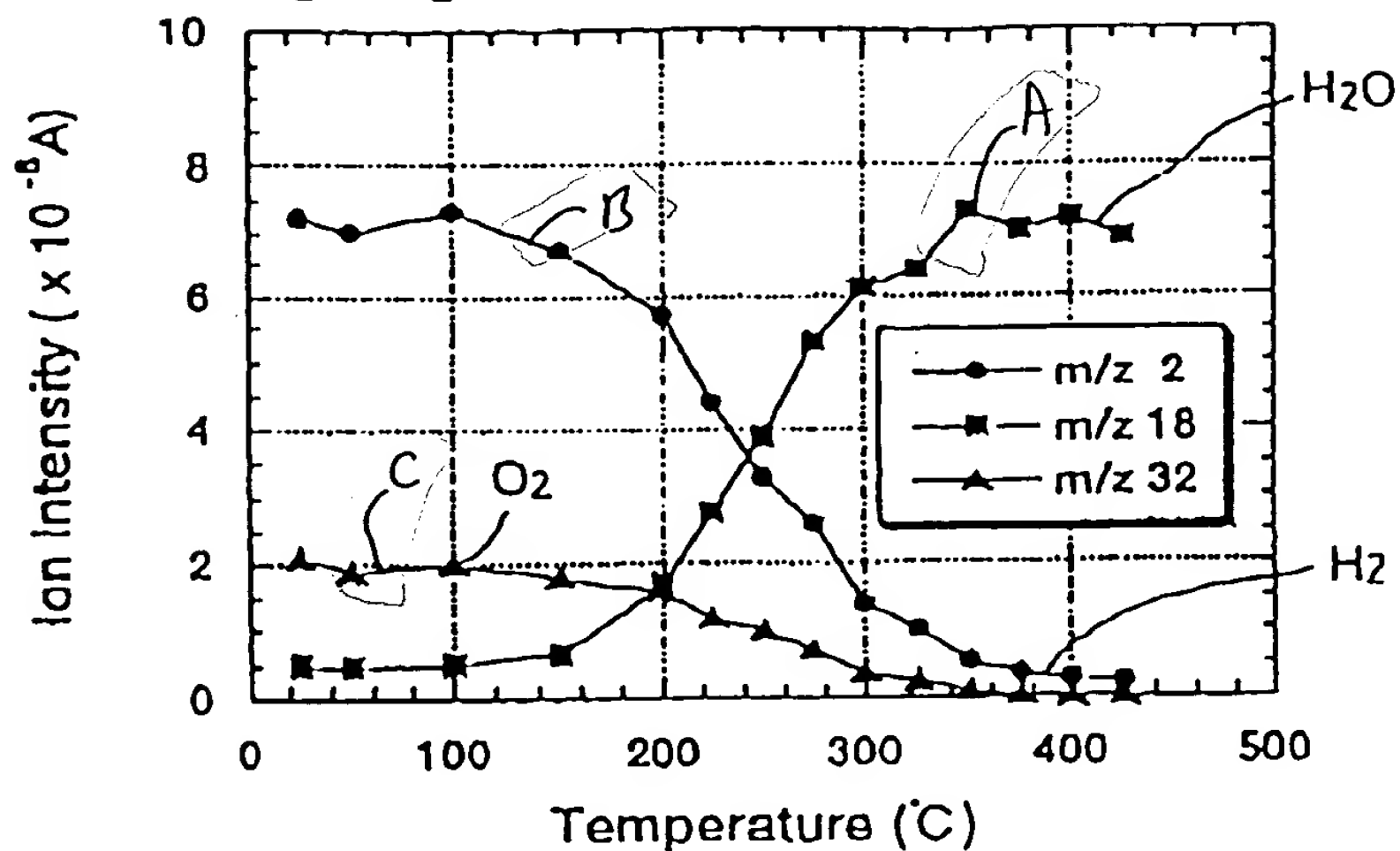




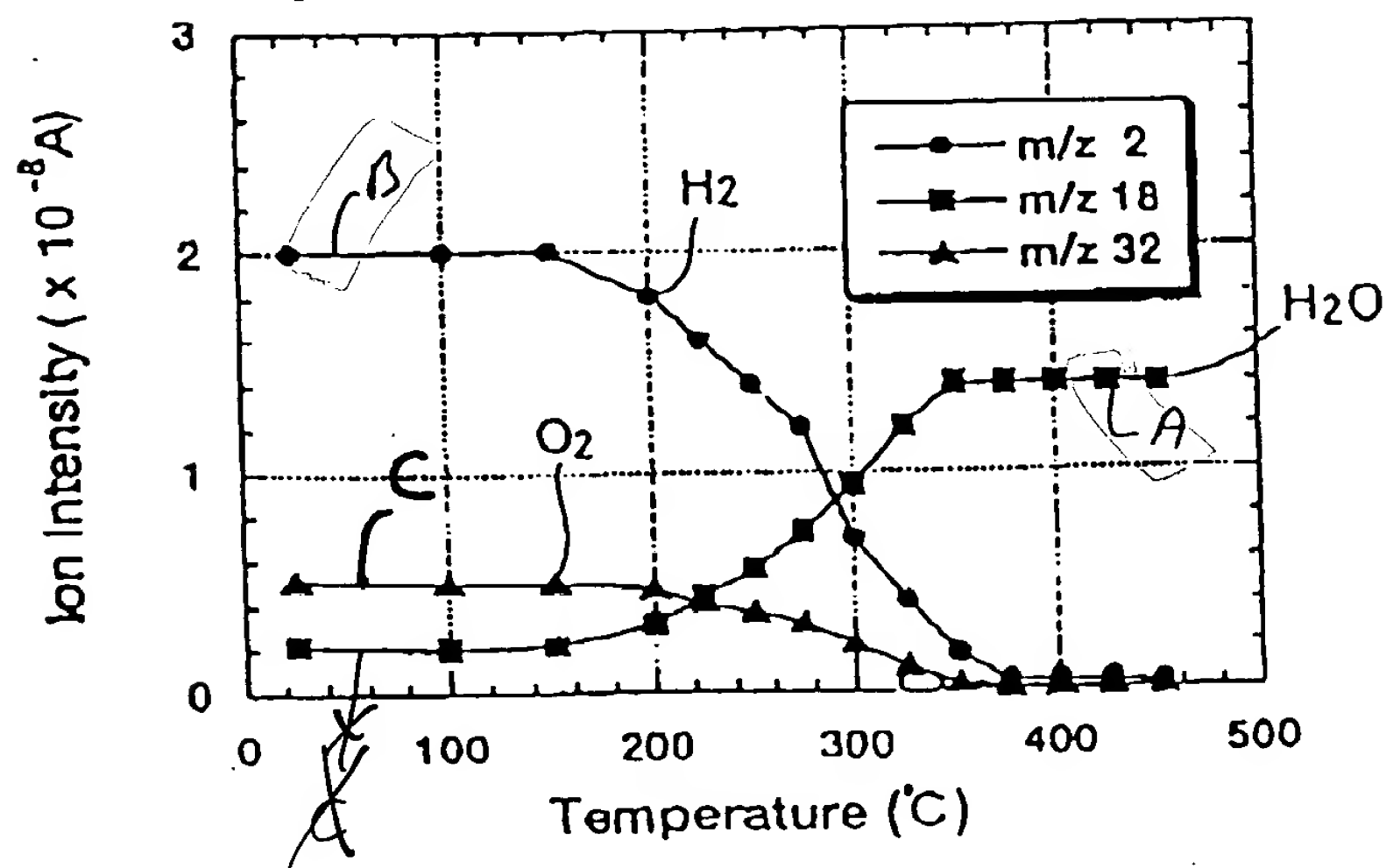
Fig. 15
~~Fig. 15~~

$H_2 : O_2 = 67\% : 33\%$, 25scc/min



~~Fig. 16~~ Fig. 16

$H_2 : O_2 = 20\% : 10\%$, 75scc/min



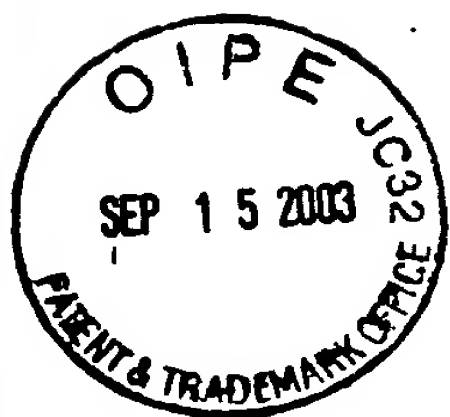
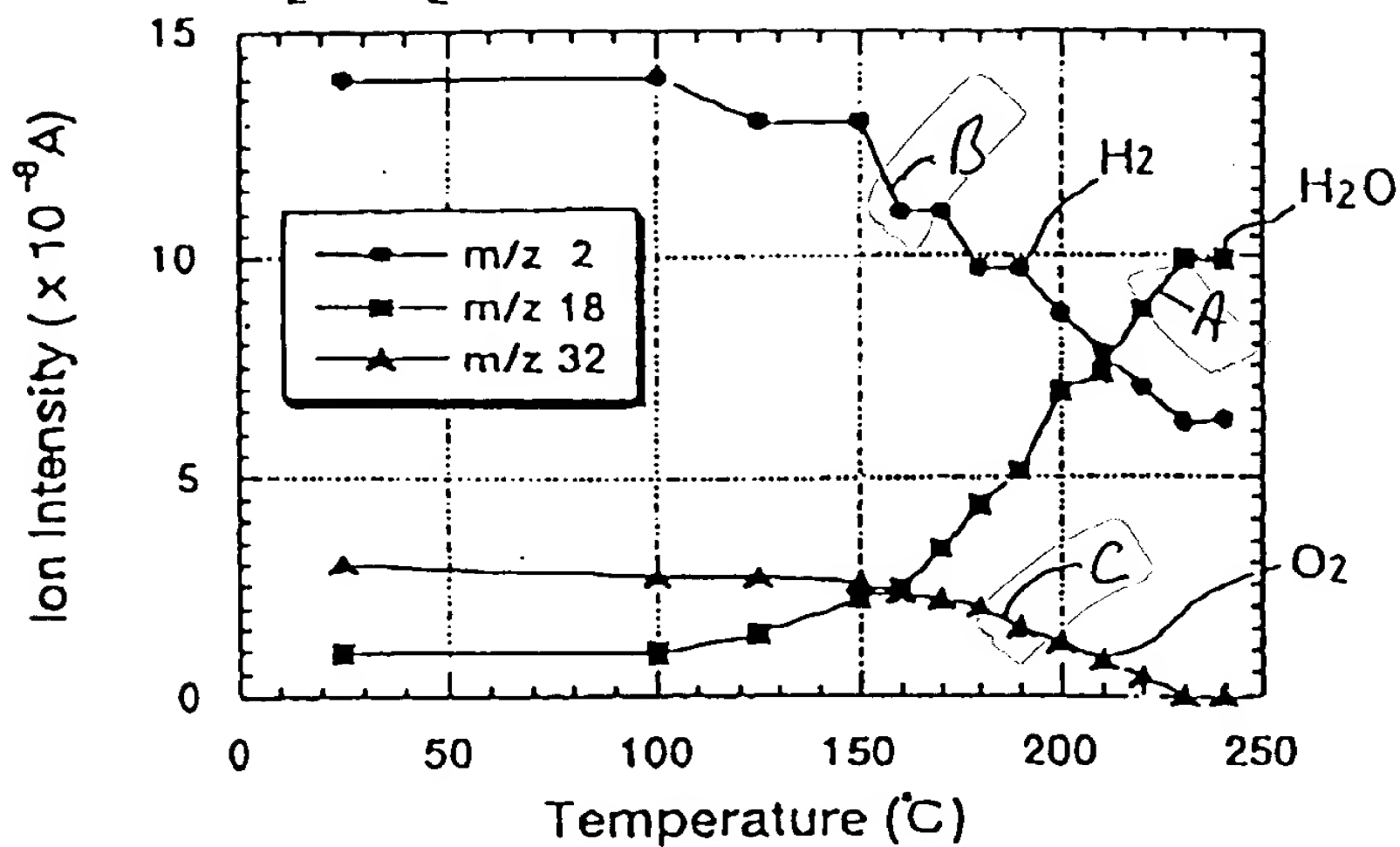


Fig. 17
~~Fig. 17~~

$H_2 : O_2 = 75\% : 25\%$, 25scc/min



~~Fig. 18~~ Fig. 18

$H_2 : O_2 = 30\% : 10\%$, 25scc/min

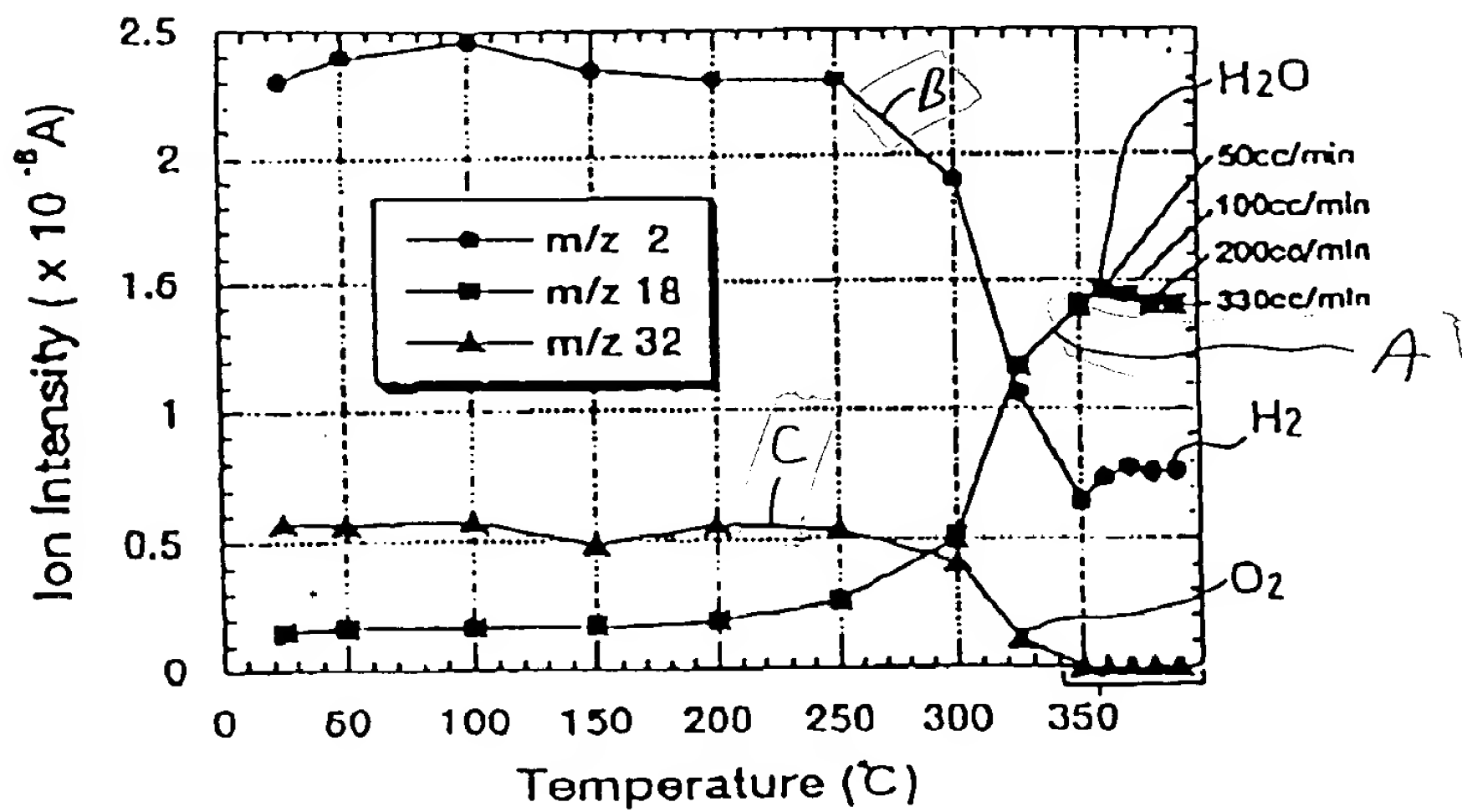
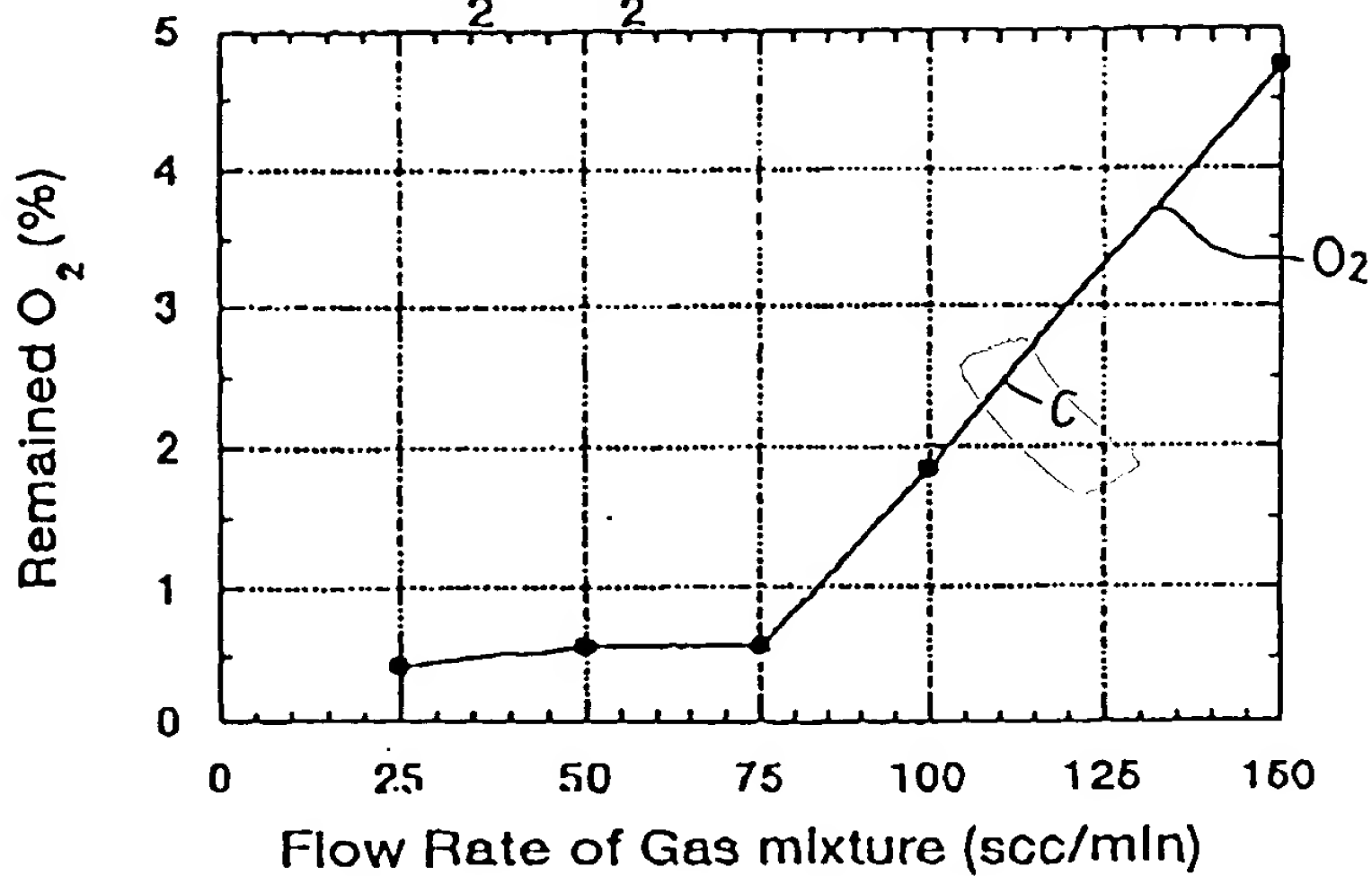




Fig. 19
~~Fig. 19~~

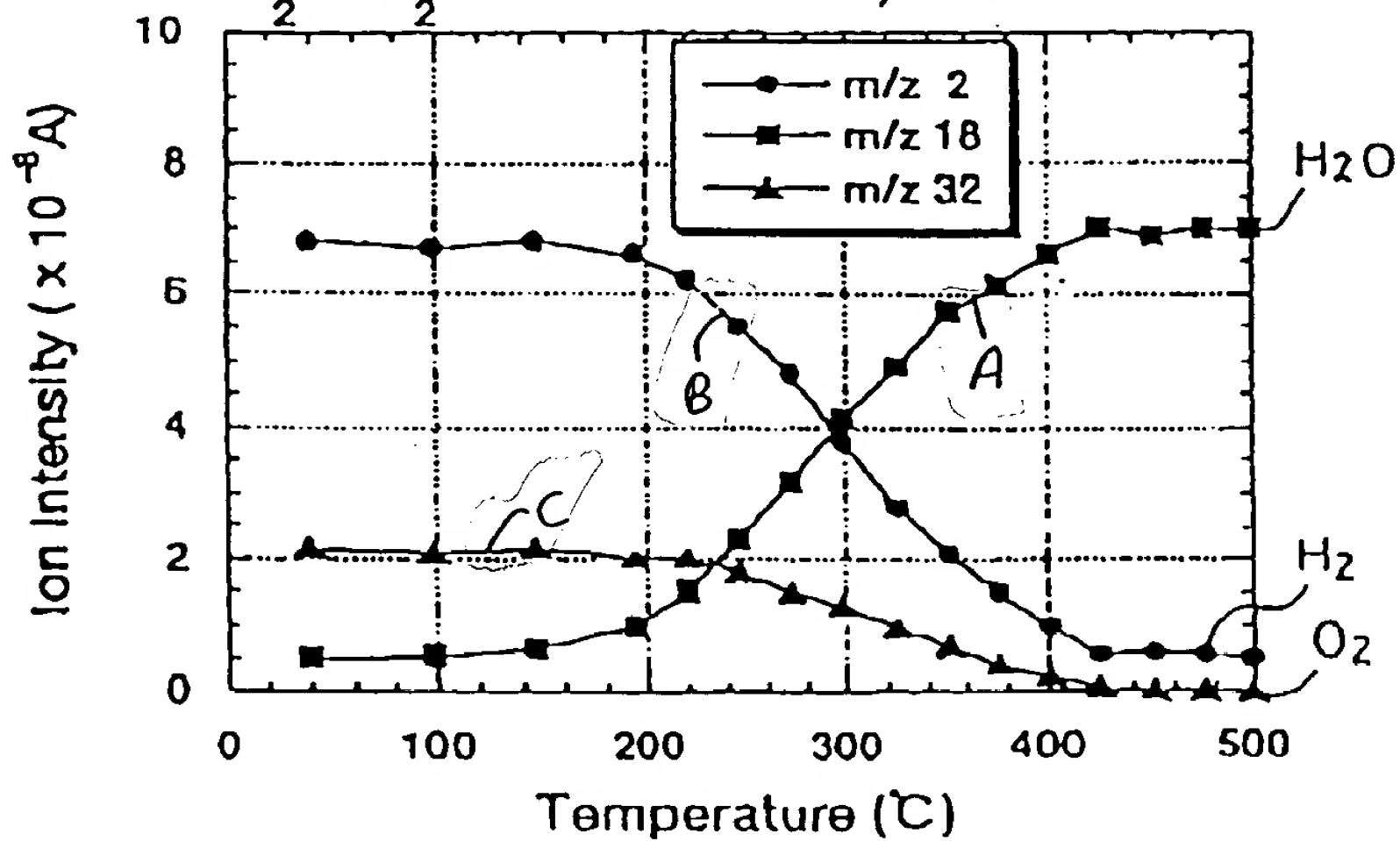
Ni Tube (1/4 inch x 2m) , 500°C
 $H_2 : O_2 = 67\% : 33\%$

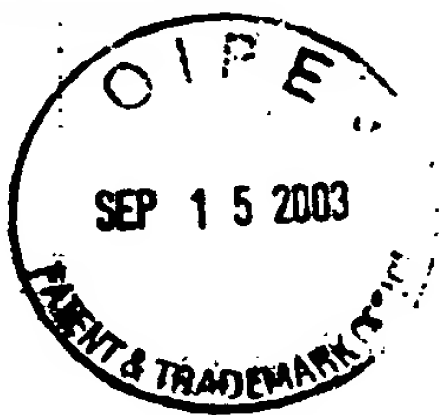


~~Fig. 20~~ Fig. 20]

Ni Filter

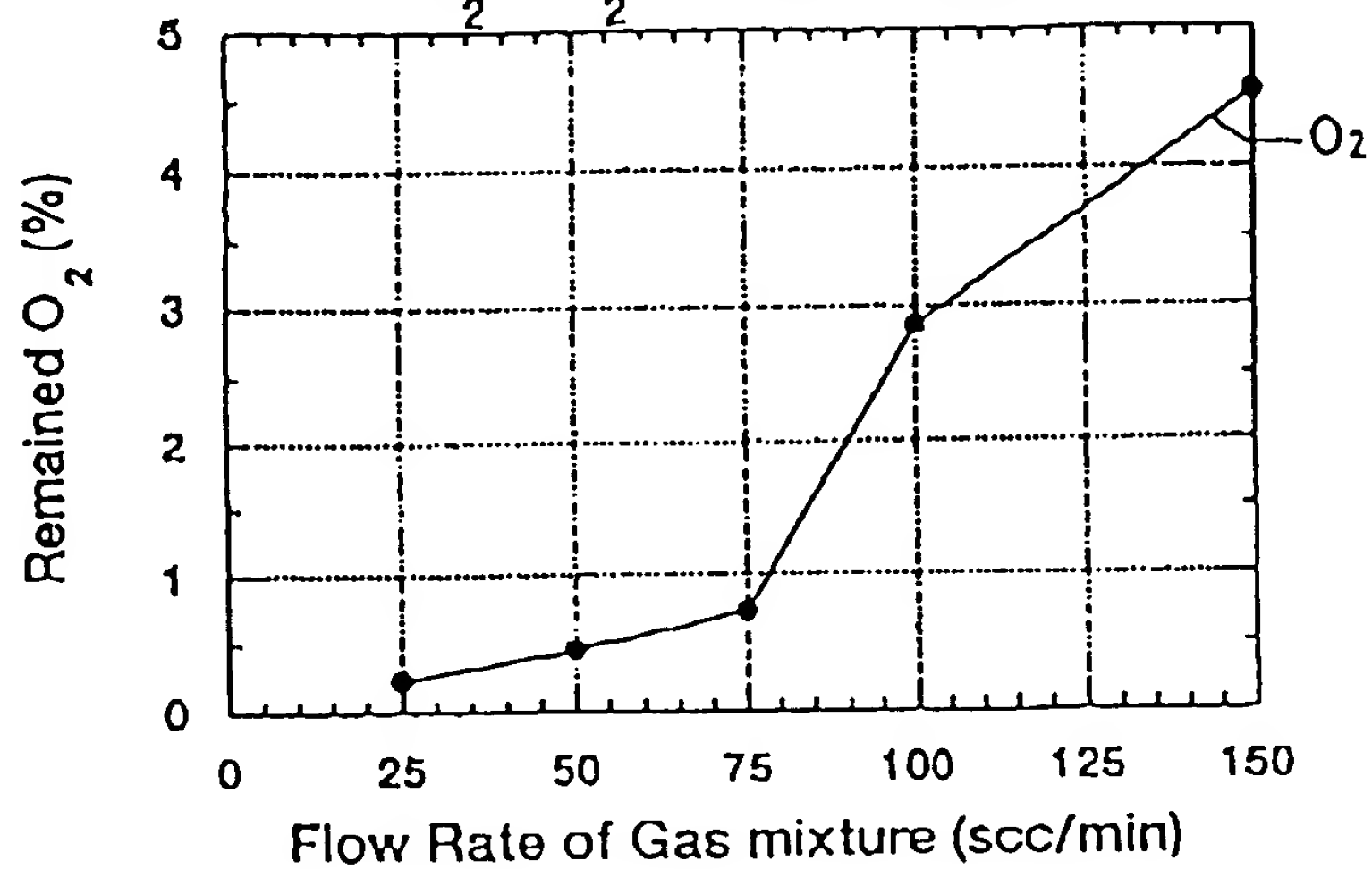
$H_2 : O_2 = 67\% : 33\%$, 25scc/min





~~Fig. 21~~
Fig. 21

Ni Filter, 500°C
 $H_2 : O_2 = 67\% : 33\%$



~~Fig. 22~~
Fig. 22

Ni Ribbon (t 0.3 x 20 x 1000mm)
 $H_2 : O_2 = 67\% : 33\%$, 25scc/min

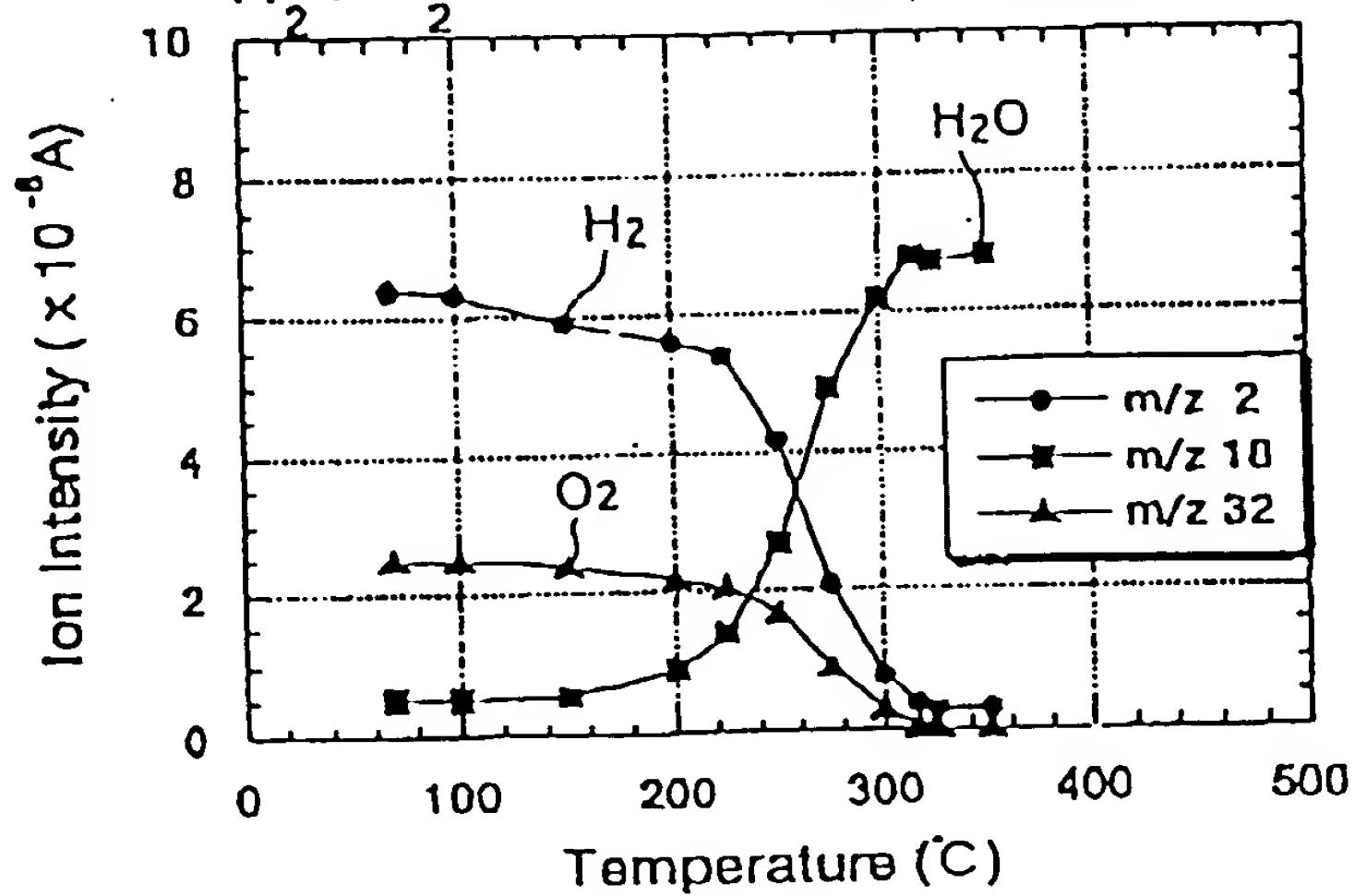
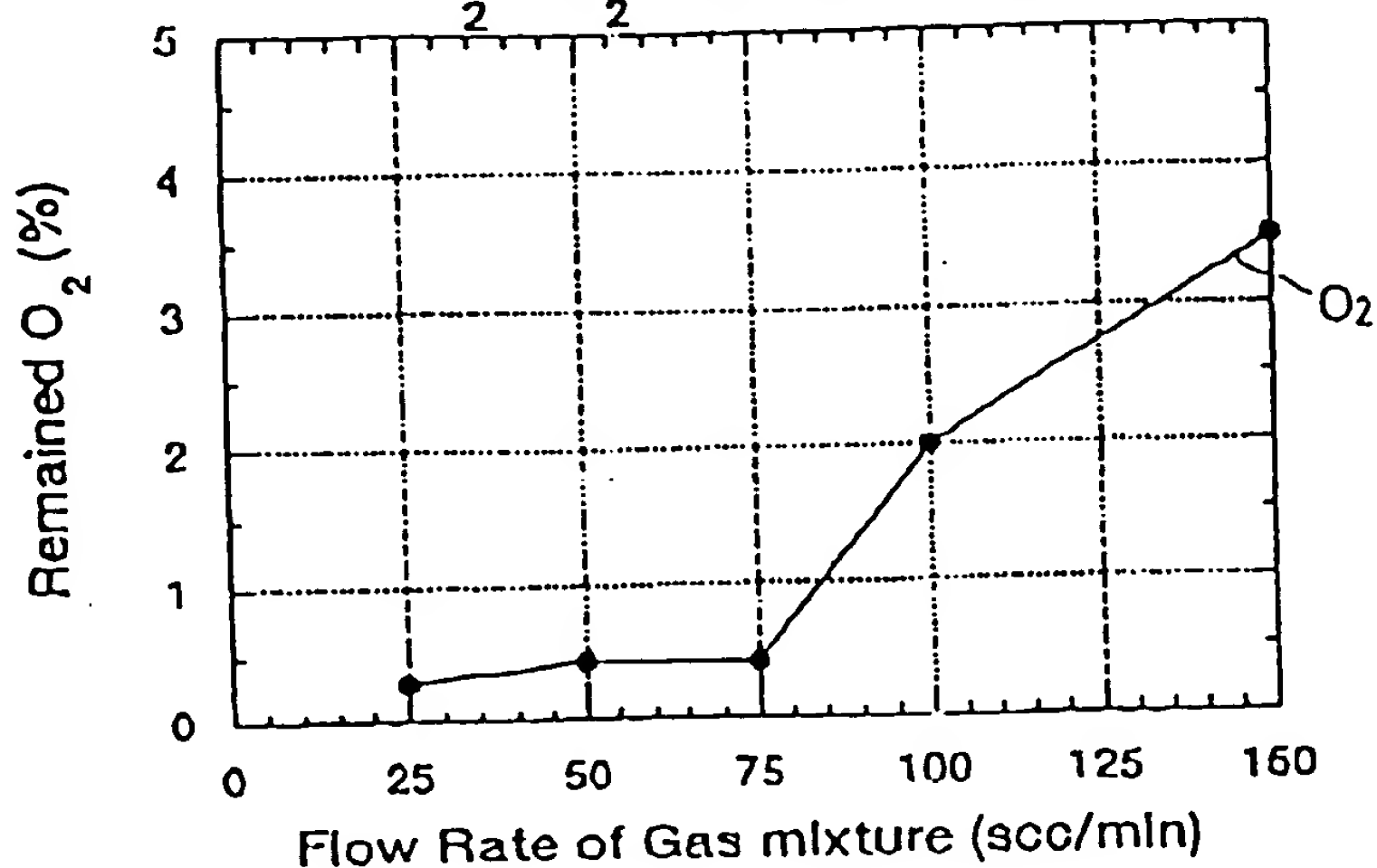


Fig. 23
~~Fig. 23~~

Ni Ribbon (t 0.3 x 20 x 1000mm), 500°C
H₂ : O₂ = 67% : 33%



~~Fig. 24~~ Fig. 24

500°C, 25scc/min
RESPONSIVENESS (AFTER STOP OF GAS SUPPLY)

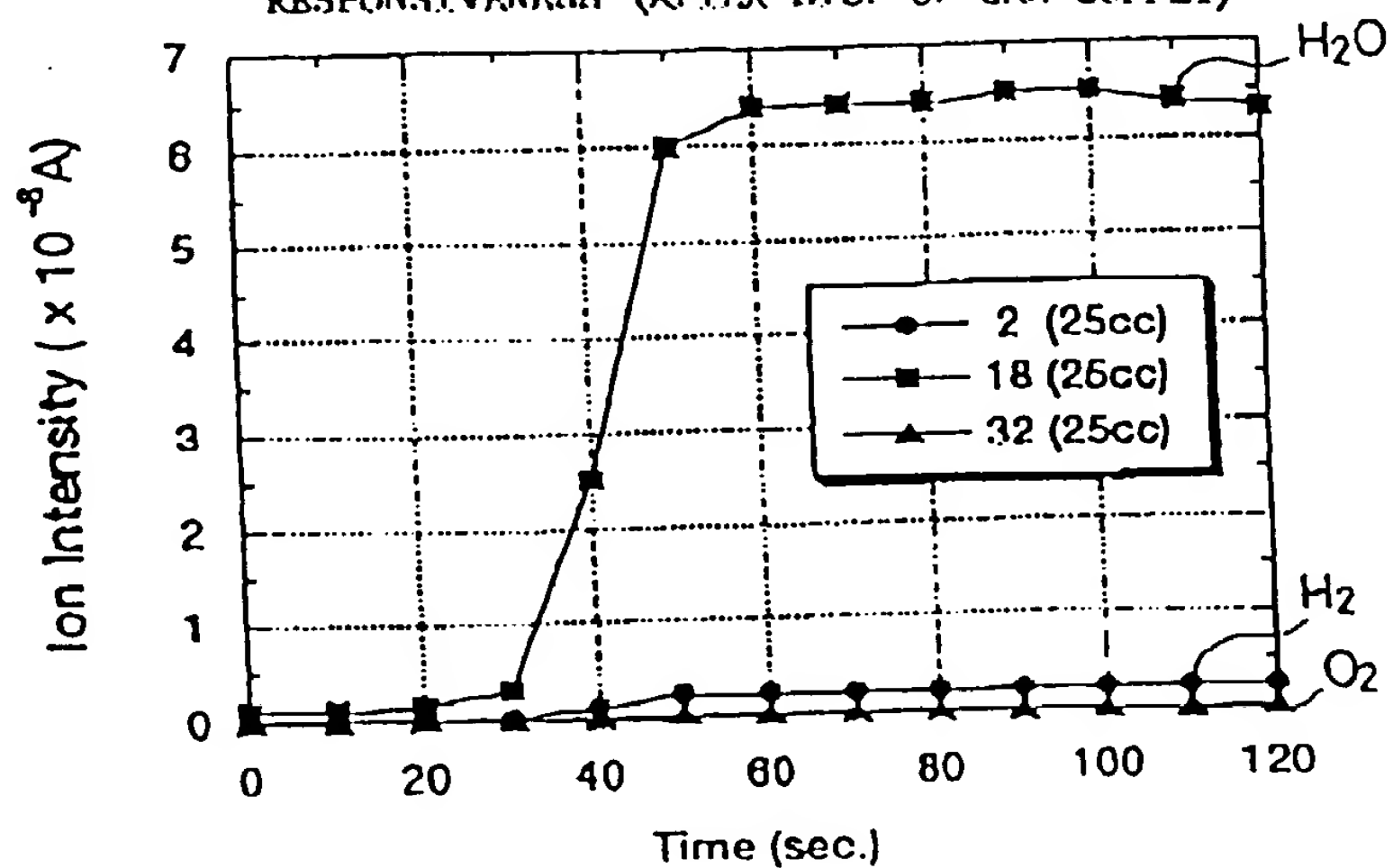
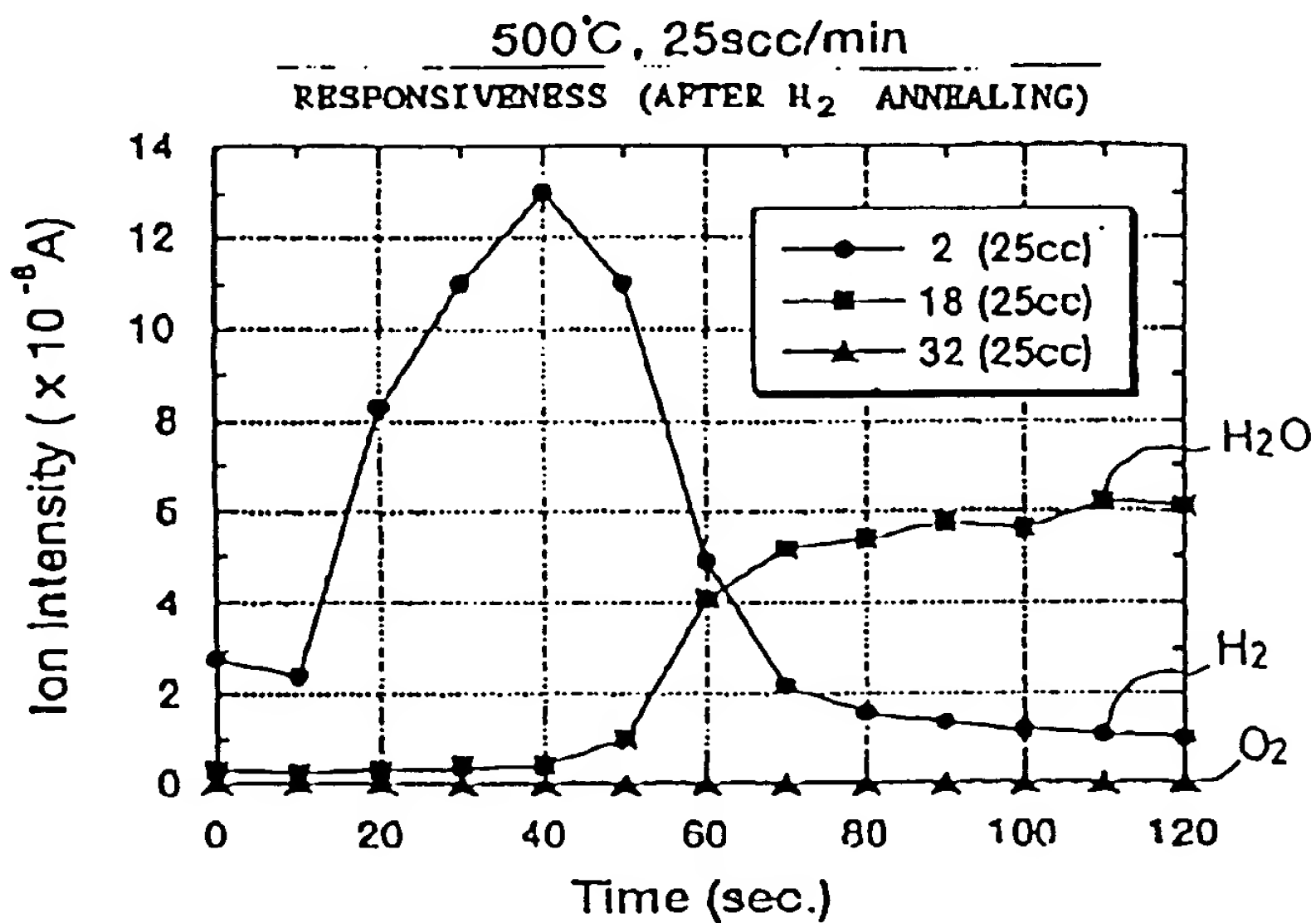




Fig. 25
~~Fig. 25~~



~~Fig. 26~~ Fig. 26

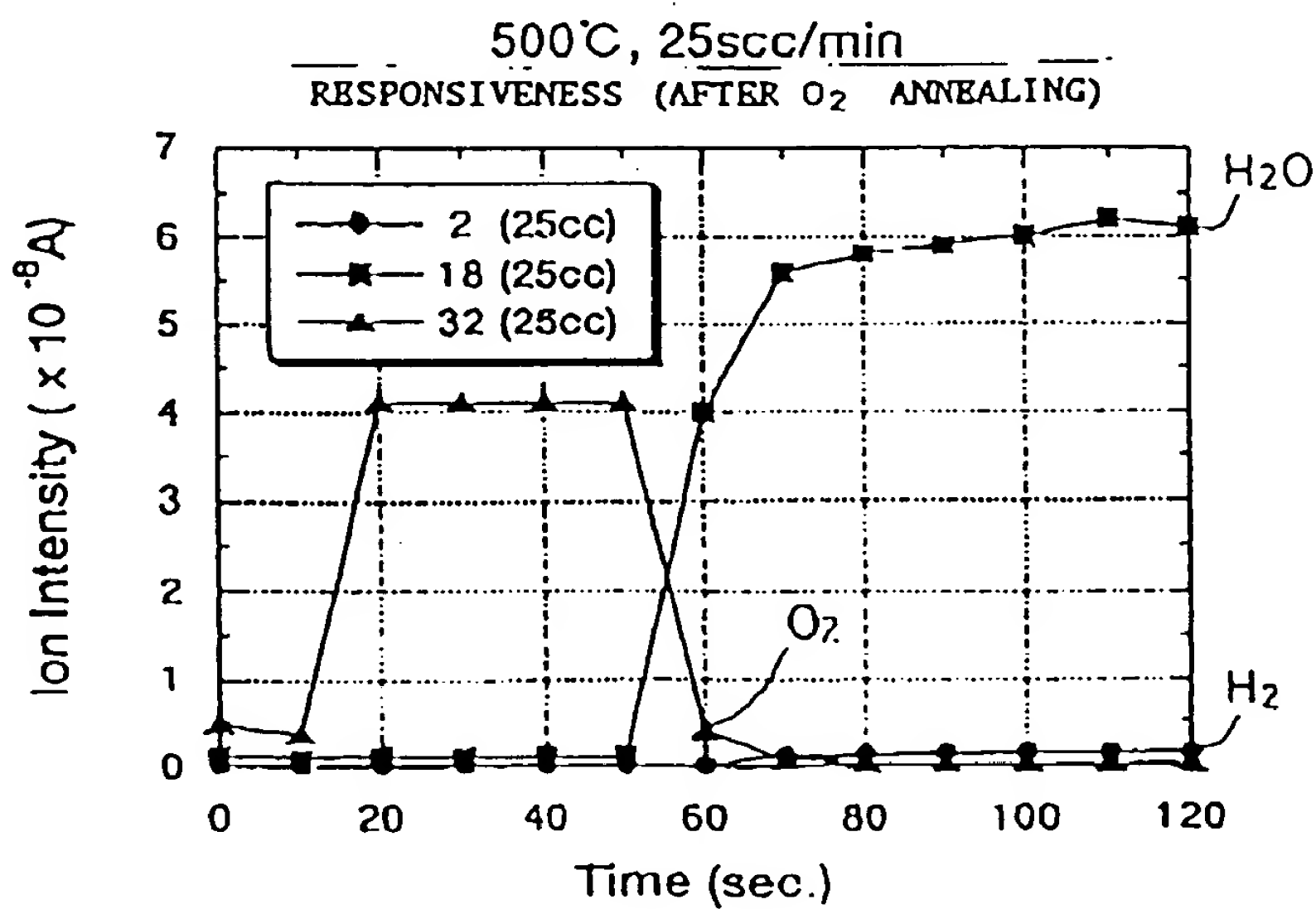




Fig. 27
27

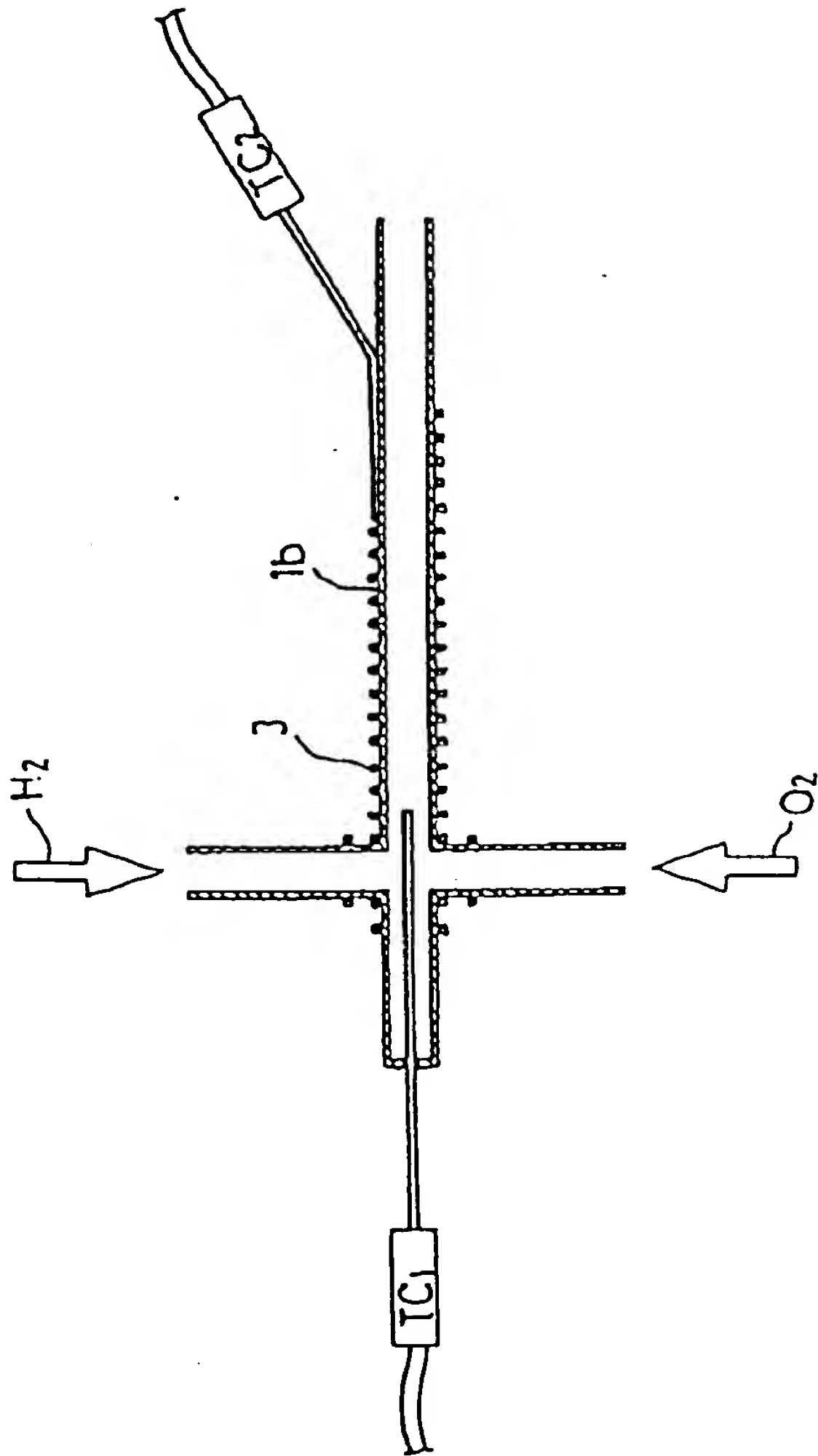




Fig. 28

28

$H_2: O_2 = 2:1$

$H_2: 100 \text{ scc/min}$

$O_2: 50 \text{ scc/min}$

610°C

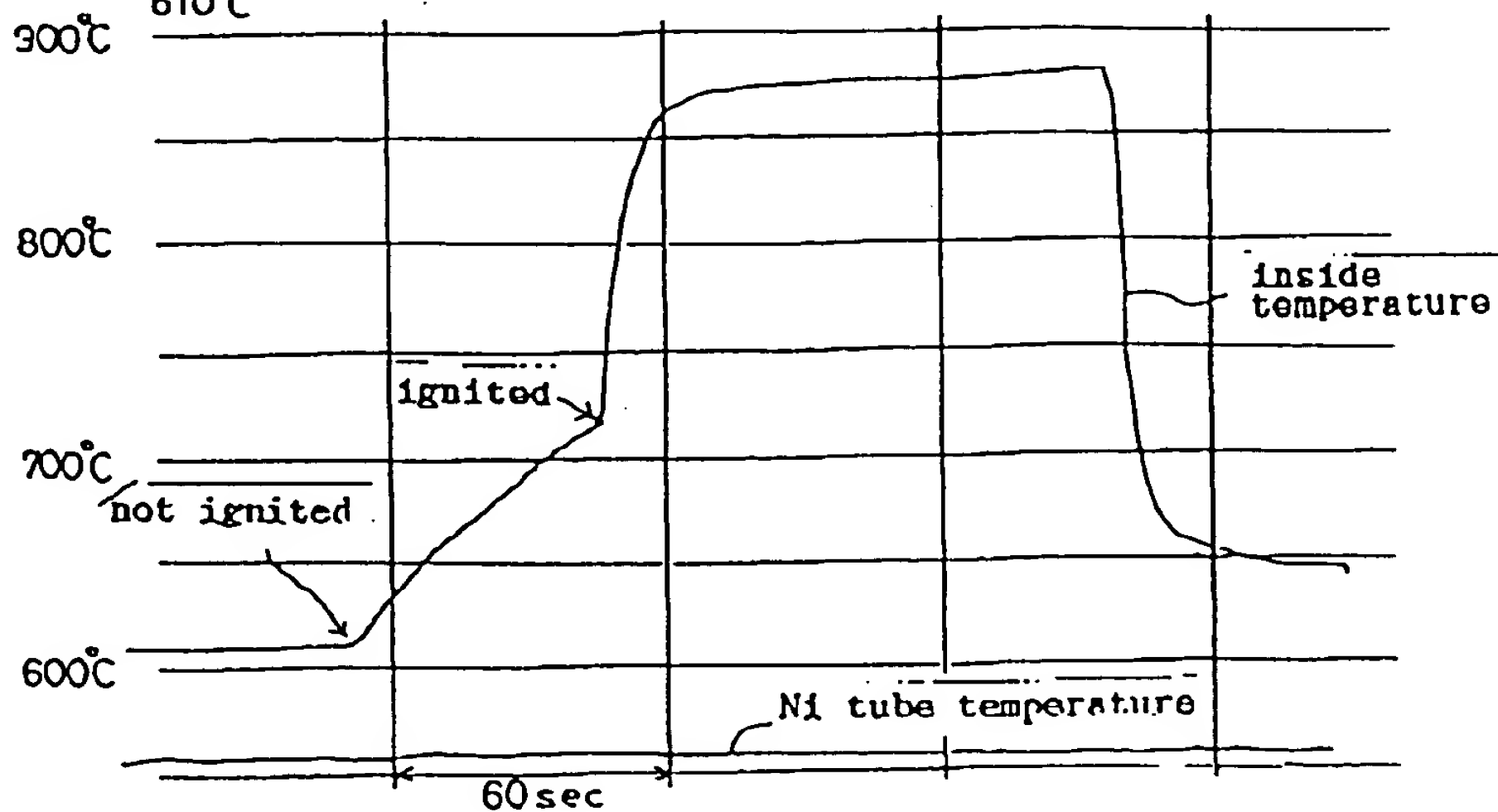
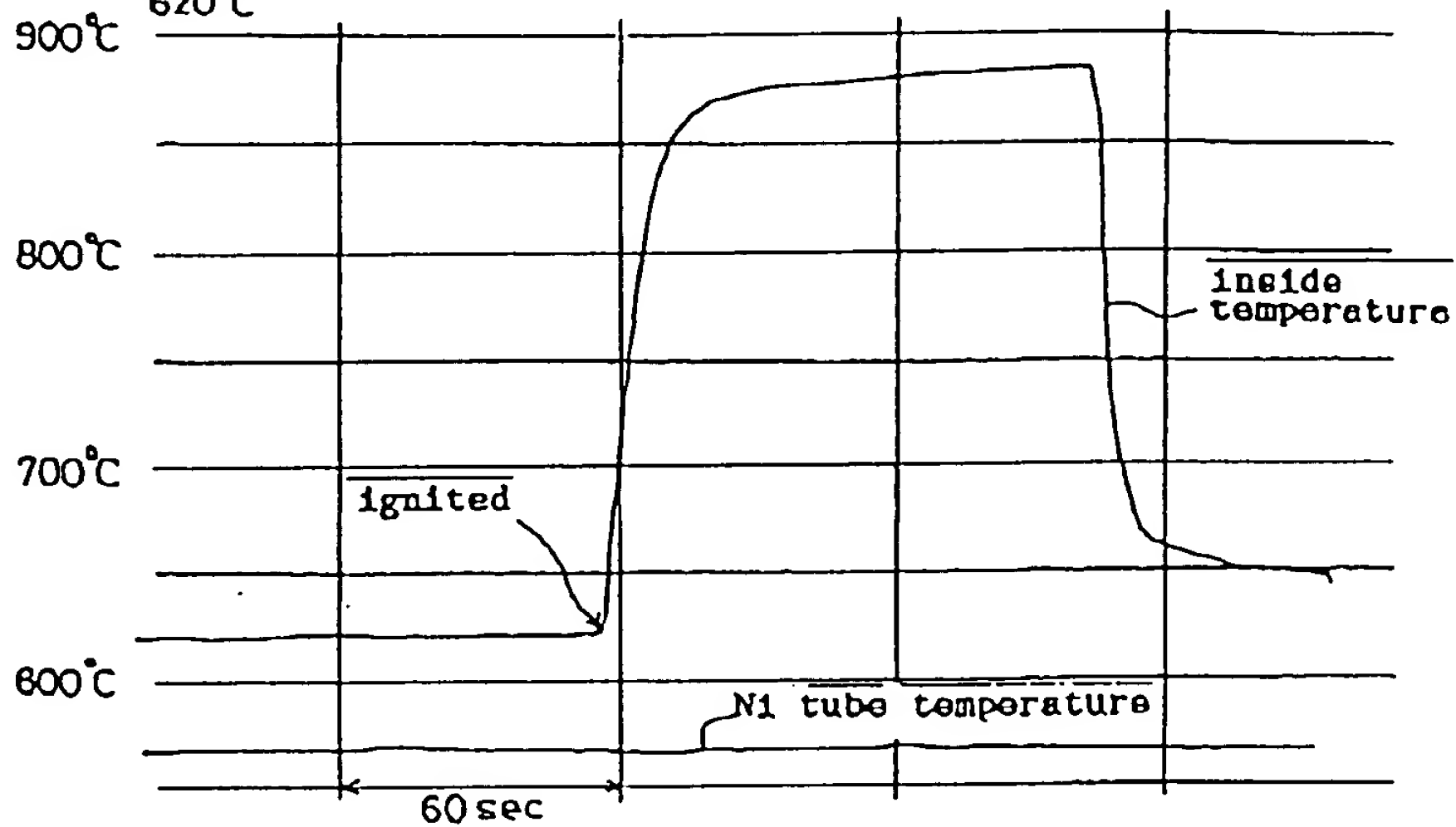




Fig. 29
~~Fig. 28~~

$H_2 : O_2 = 2 : 1$

H_2 : 100 scc/min
 O_2 : 50 scc/min
620°C



~~Fig. 30~~ Fig. 30,

$H_2 : O_2 = 3 : 1$

H_2 : 100 scc/min
 O_2 : 33 scc/min
610°C

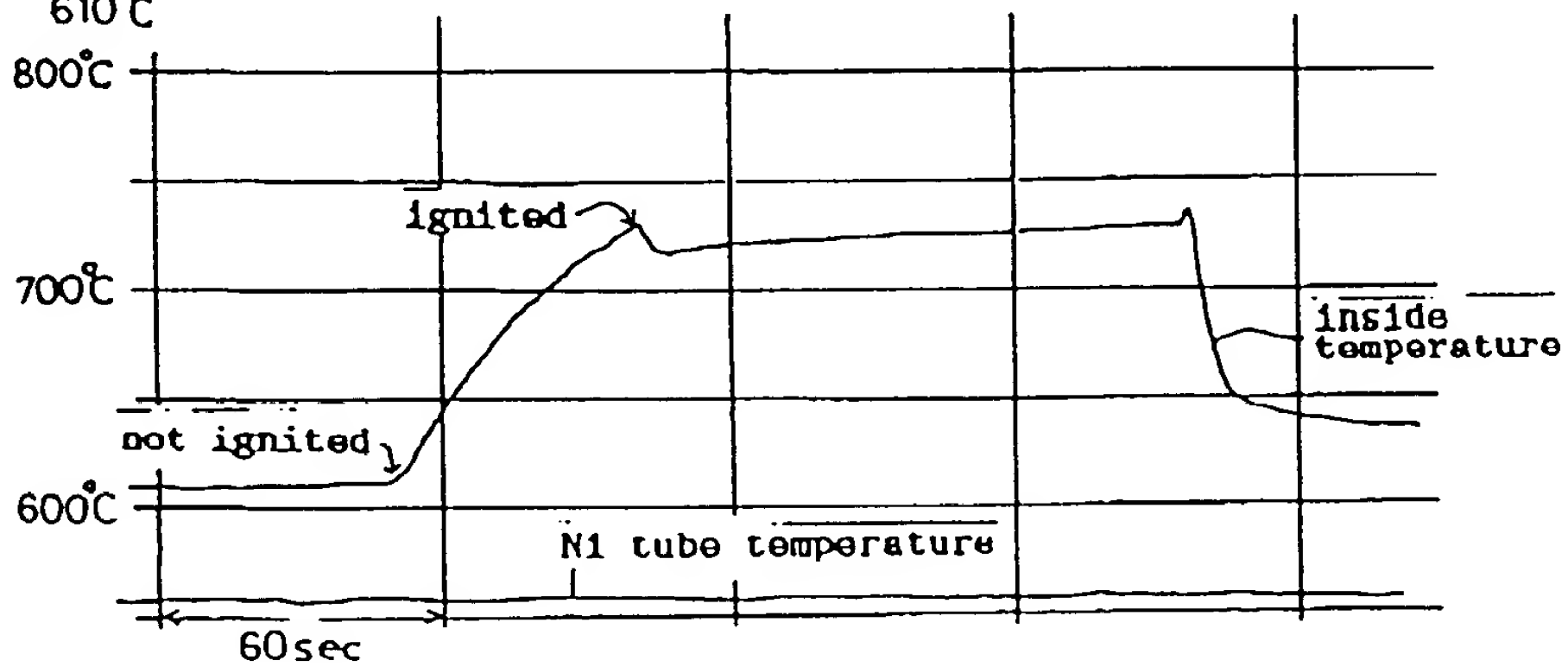




Fig. 3)
~~18-81~~

H₂: 100scc/min
O₂: 33scc/min
620°C

H₂: O₂ = 3 : 1

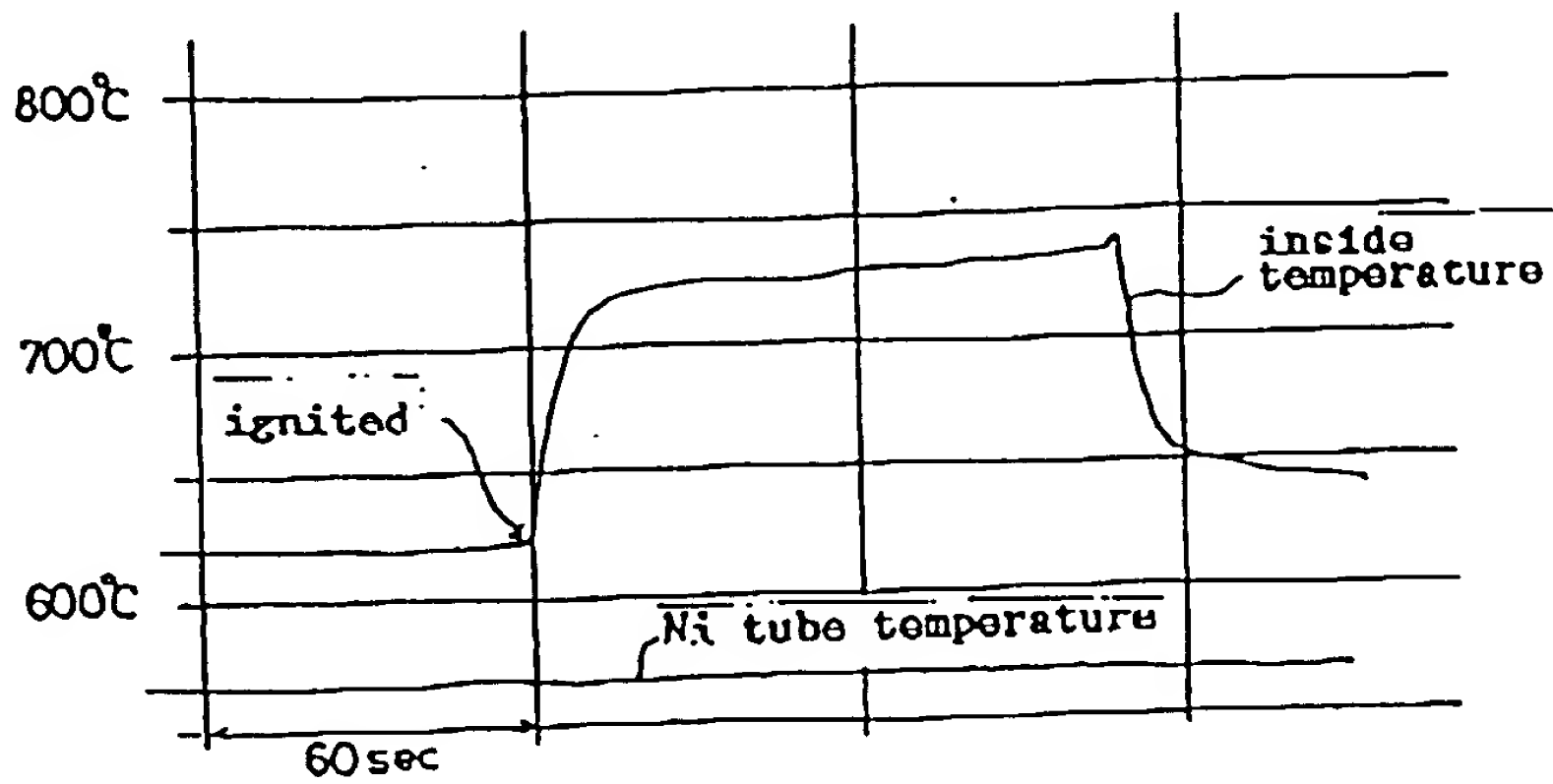


Fig. 32

$H_2 : O_2 = 4 : 3$

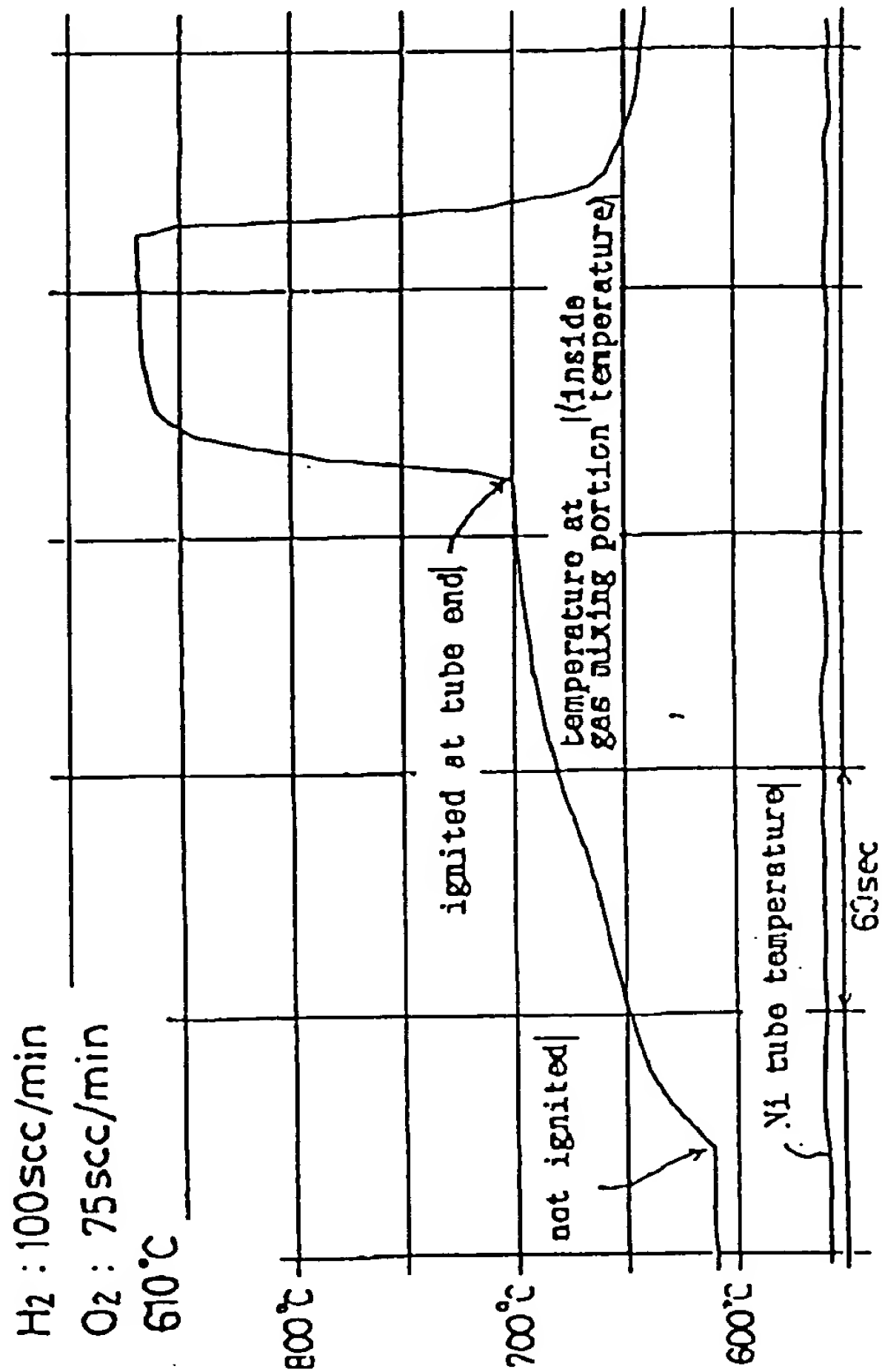




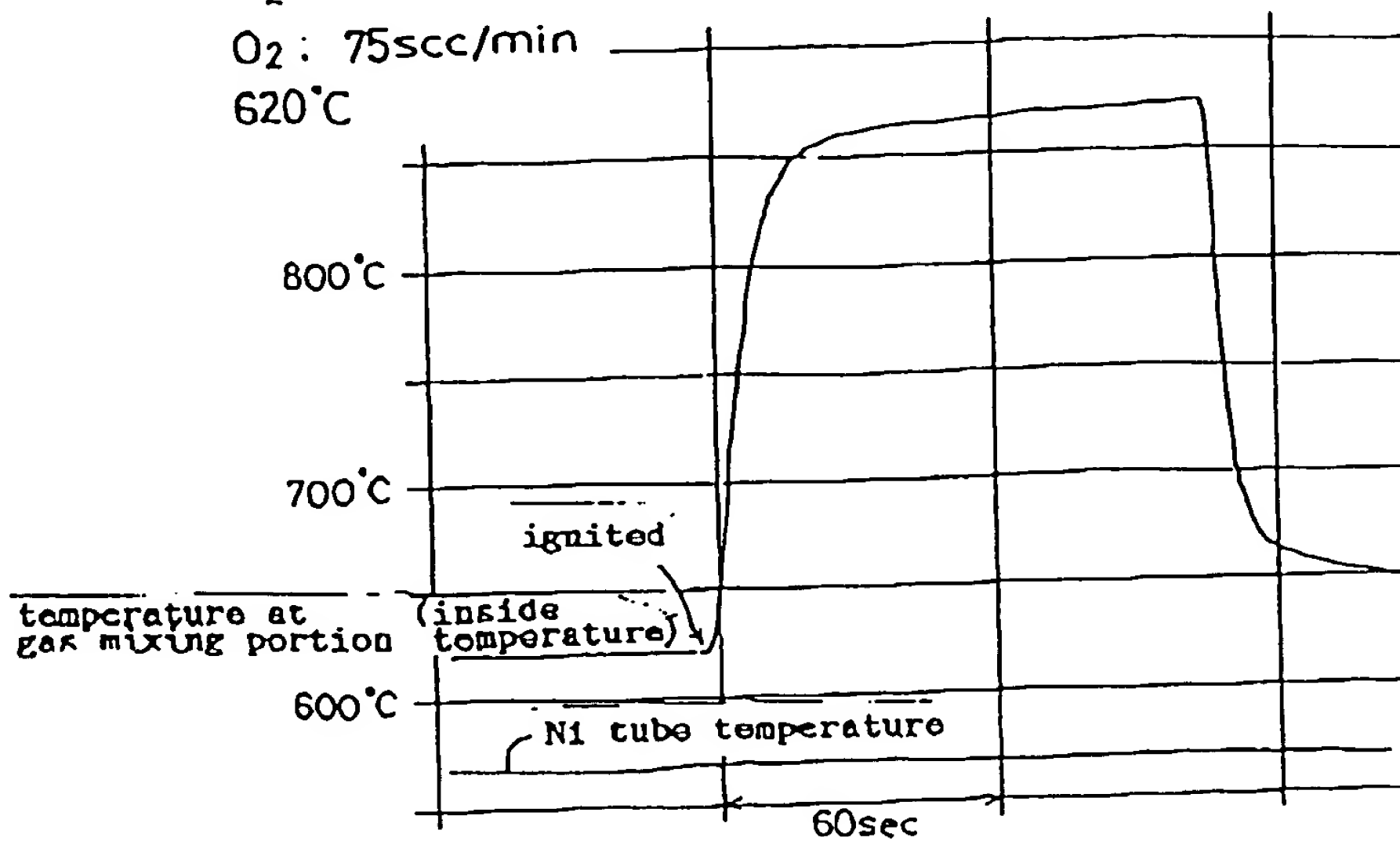
Fig. 33

~~Fig. 33~~

H₂ : 100 scc/min

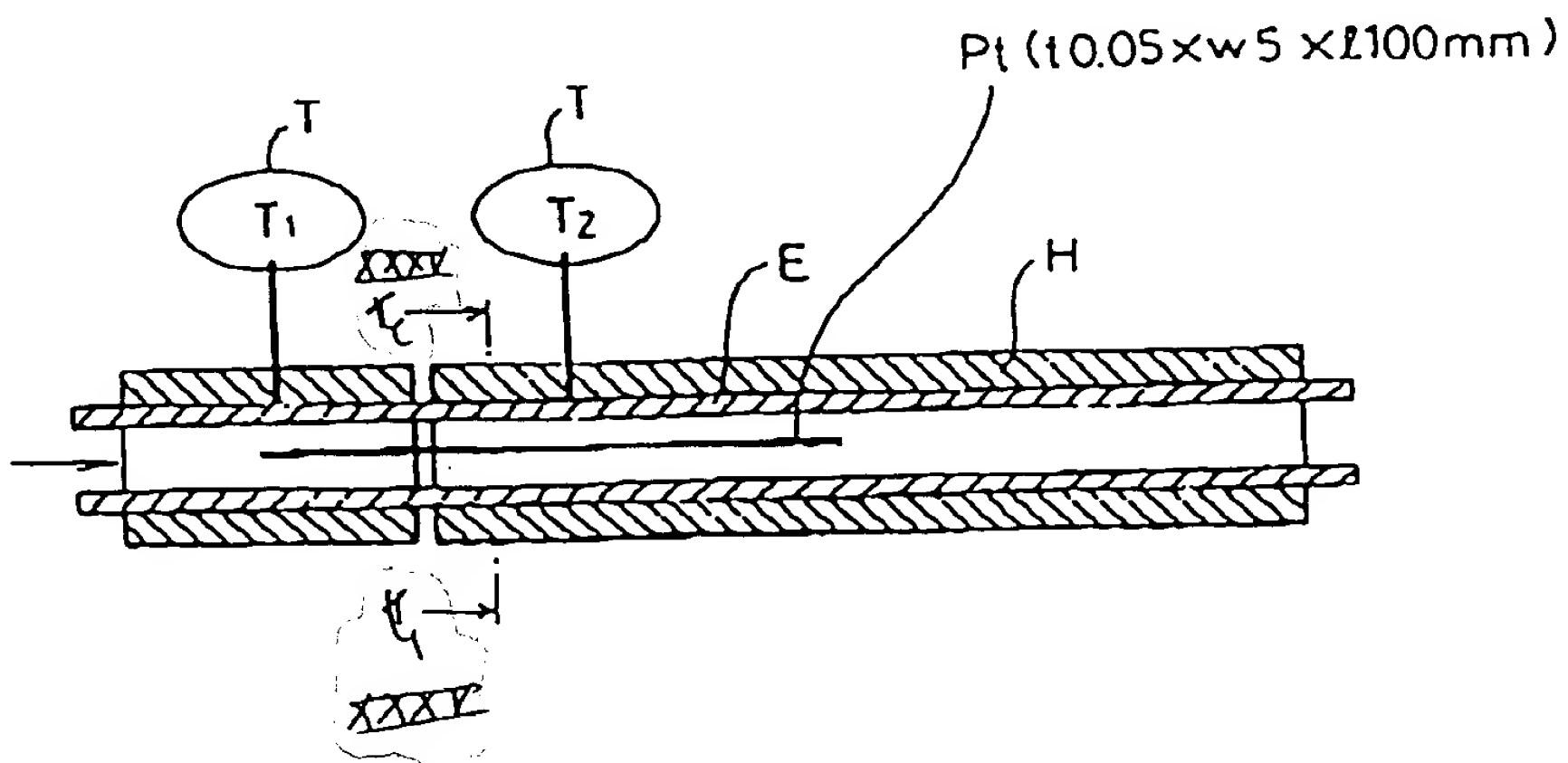
O₂ : 75 scc/min

620°C



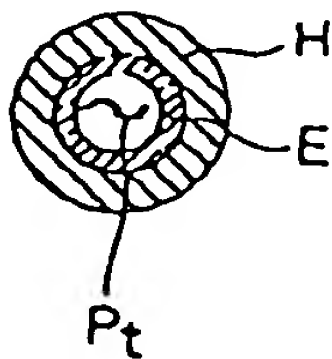
~~Fig. 34~~

Fig. 34

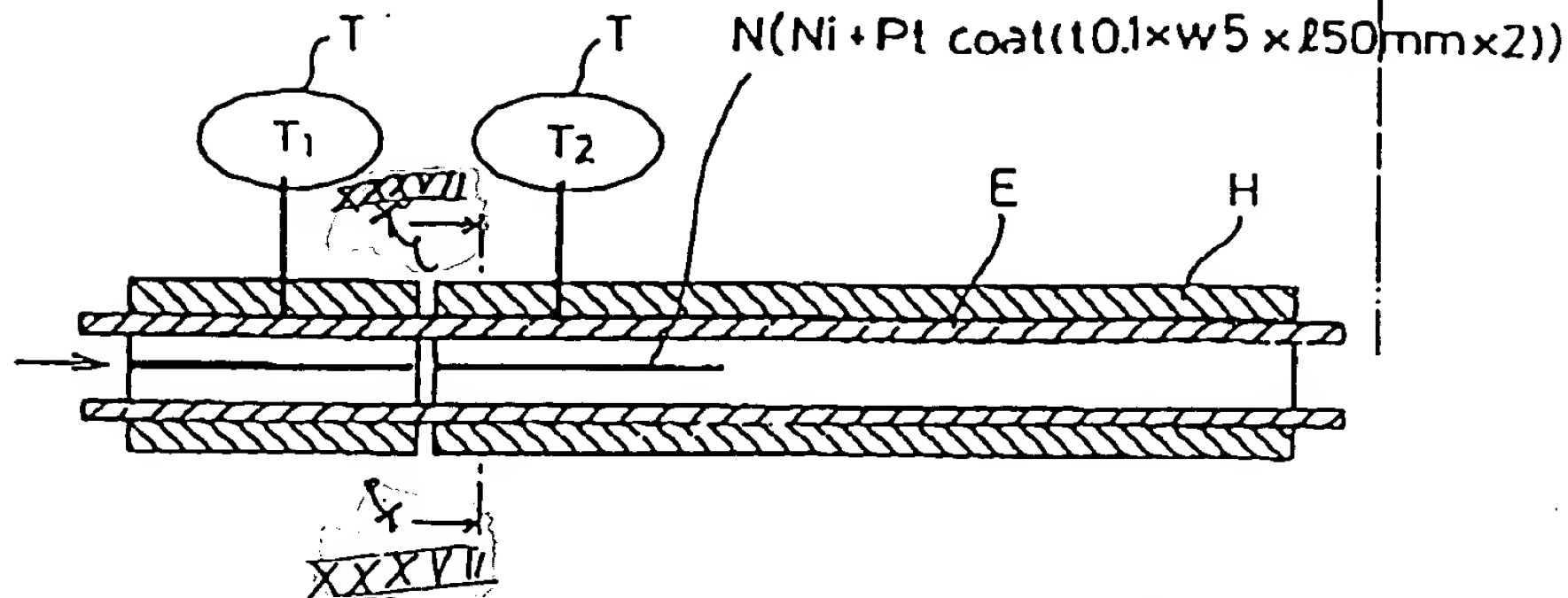




~~Fig. 35~~
~~35~~



~~Fig. 36~~ Fig. 36



~~Fig. 37~~ Fig. 37

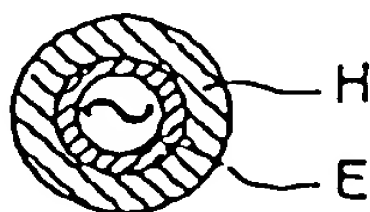
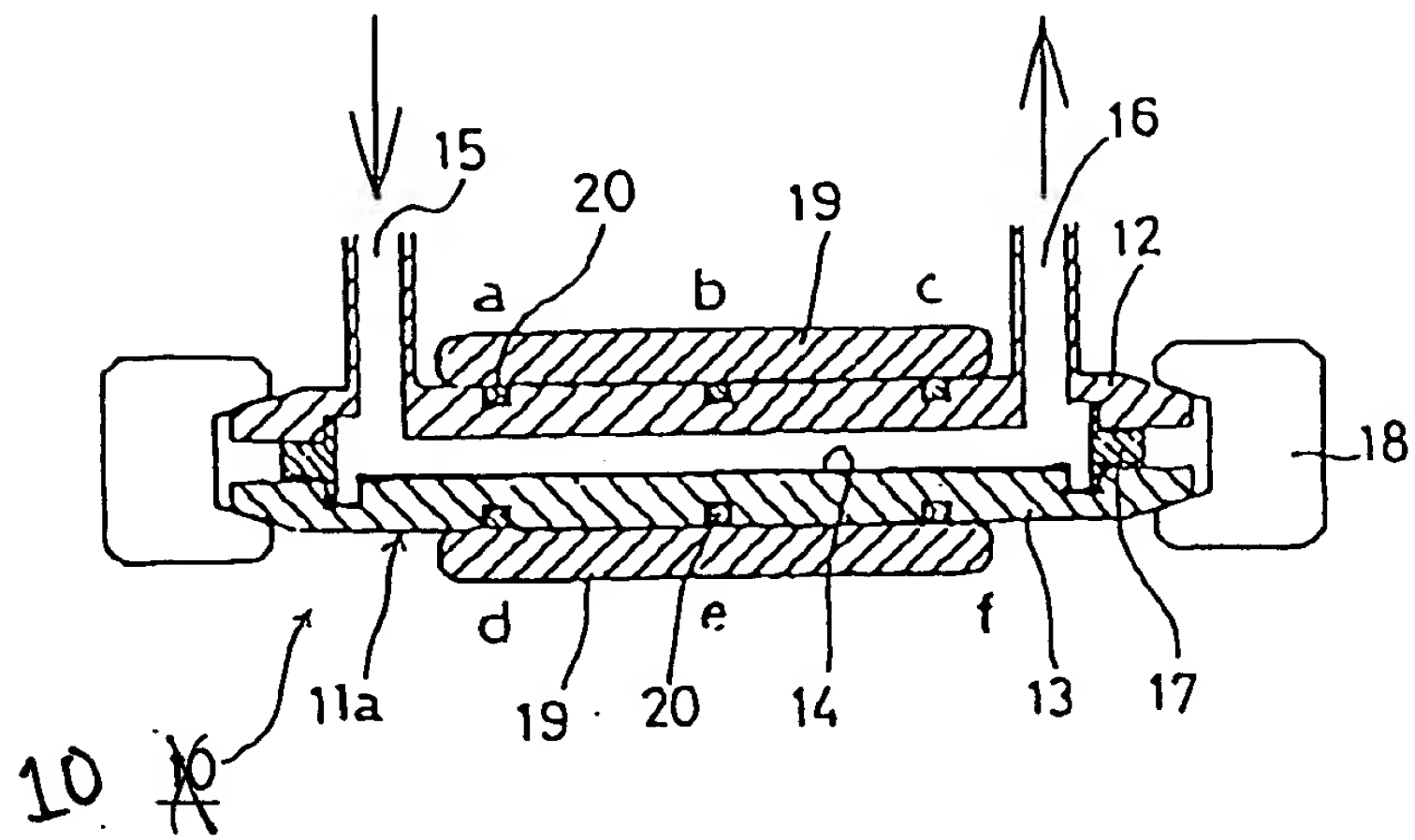




Fig. 38
~~38-38~~



~~38-38~~ Fig. 39

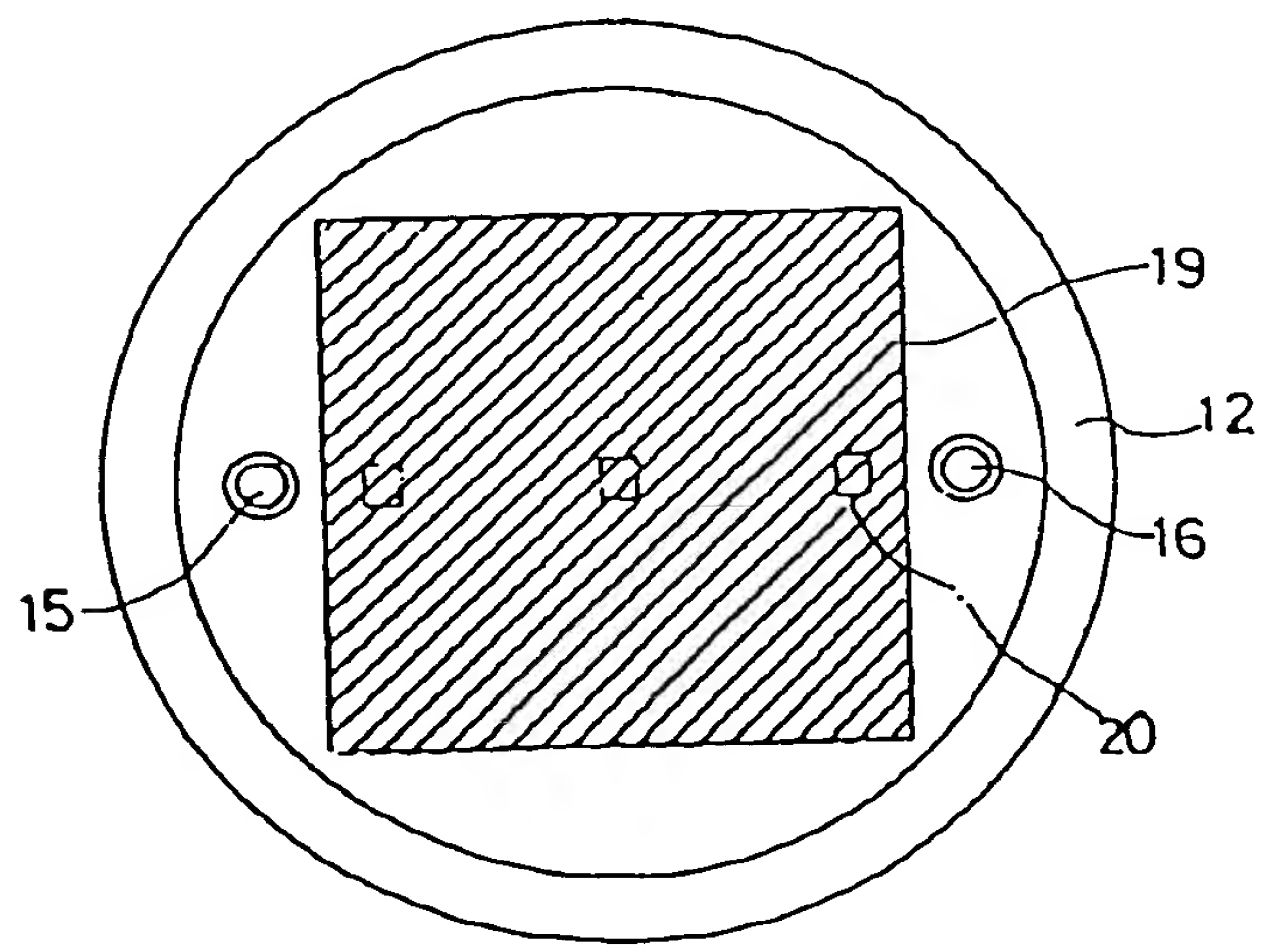


Fig. 40
40

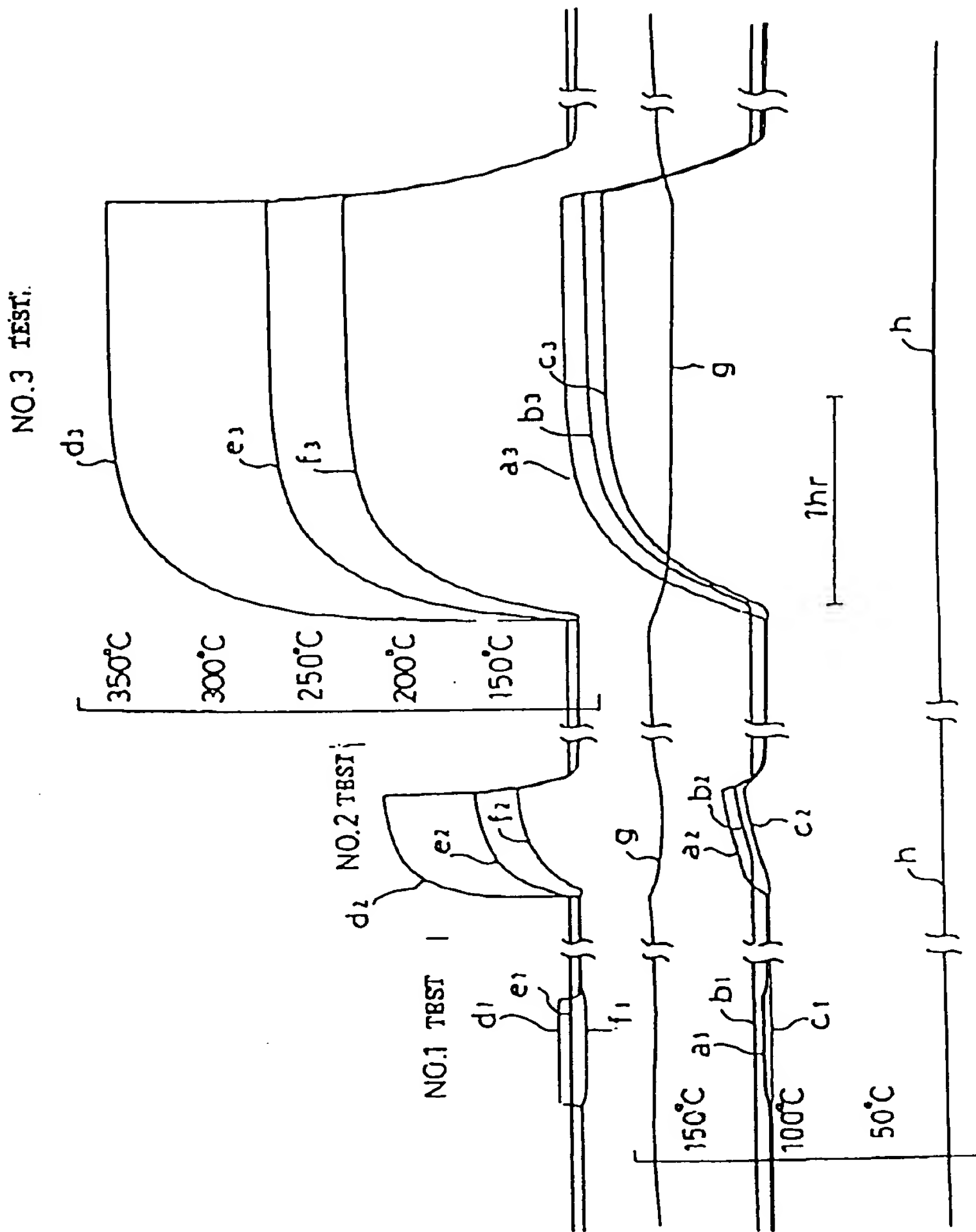




Fig. 41

~~Fig. 41~~

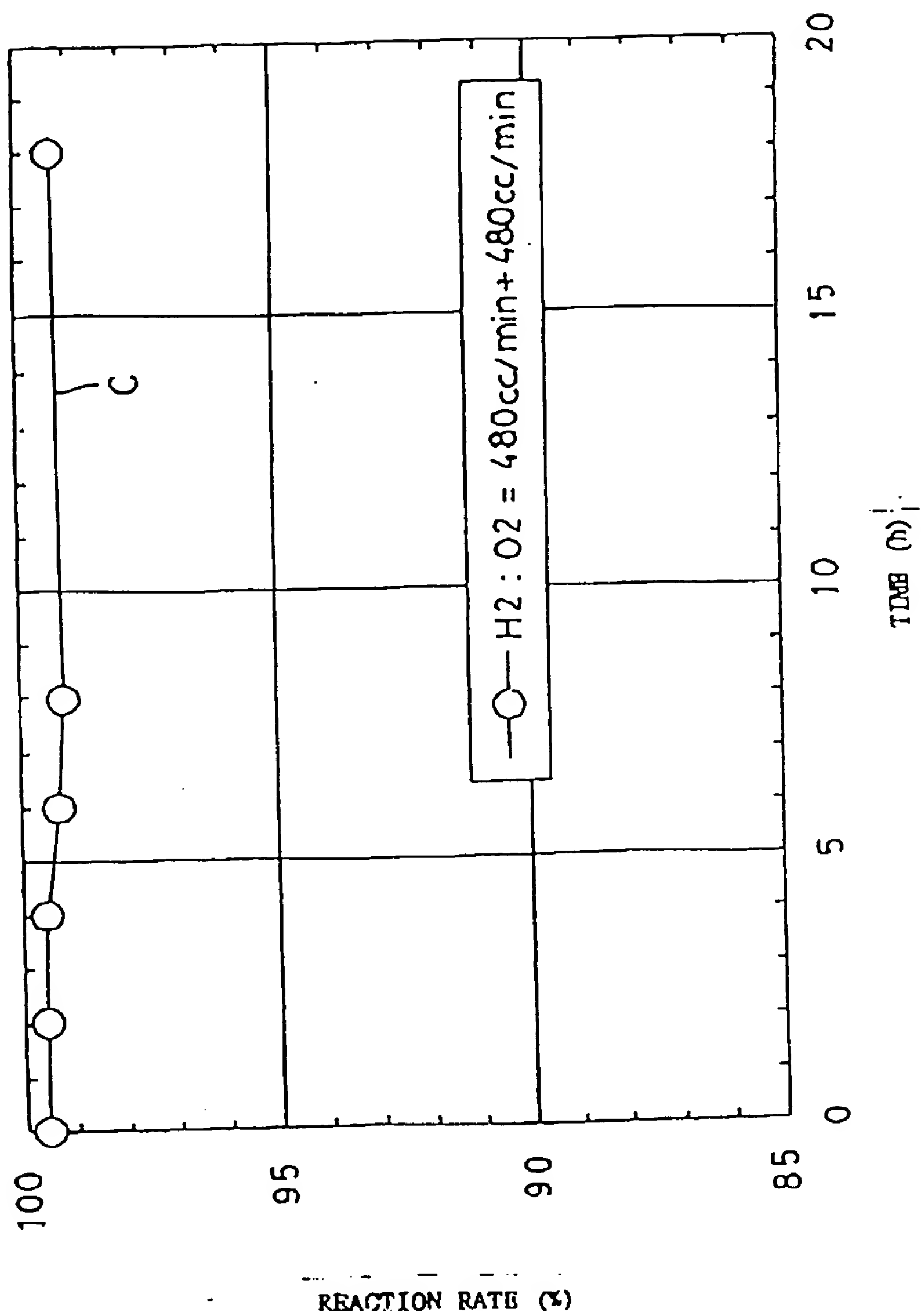
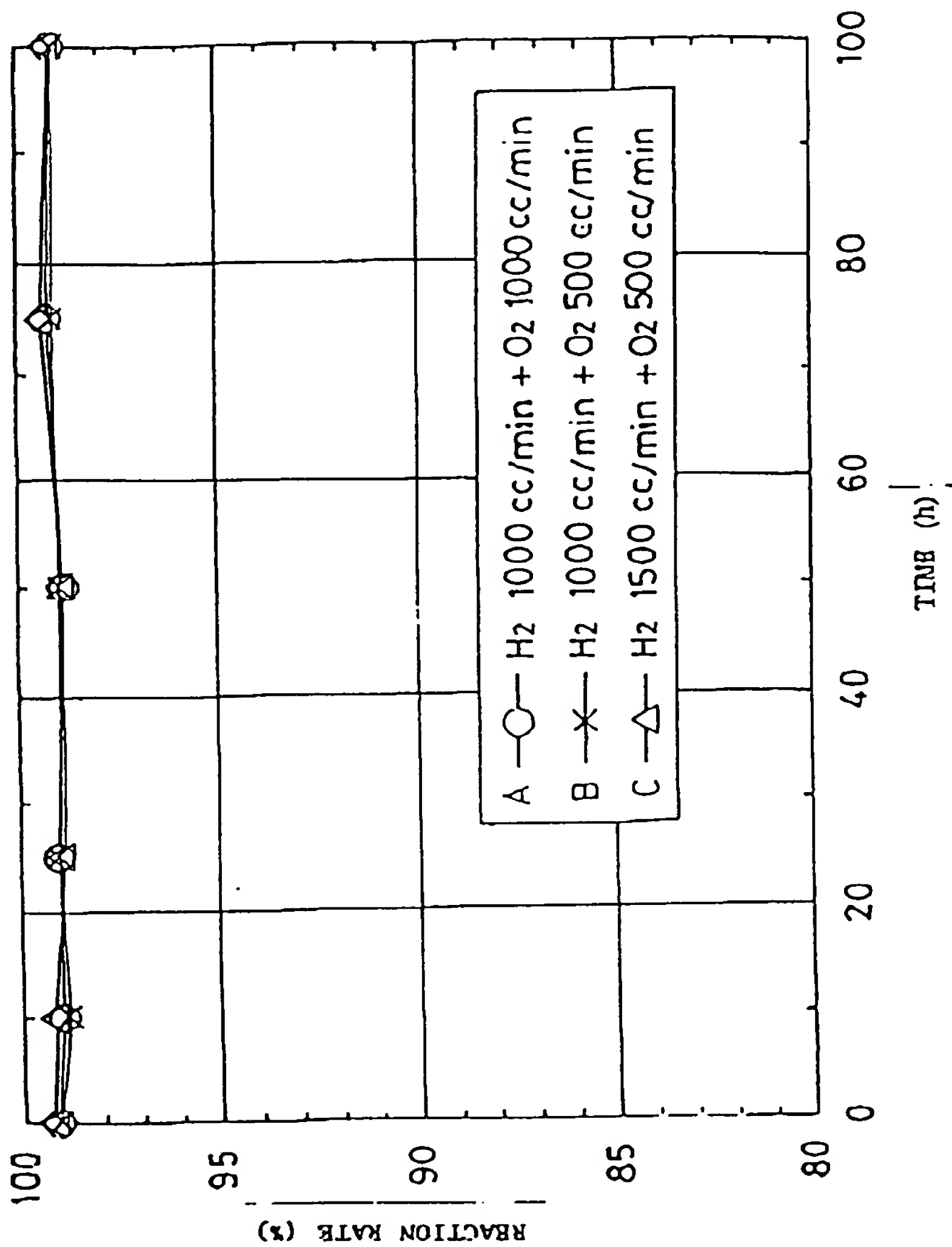


Fig. 42





✕ 4.3

Fig. 43

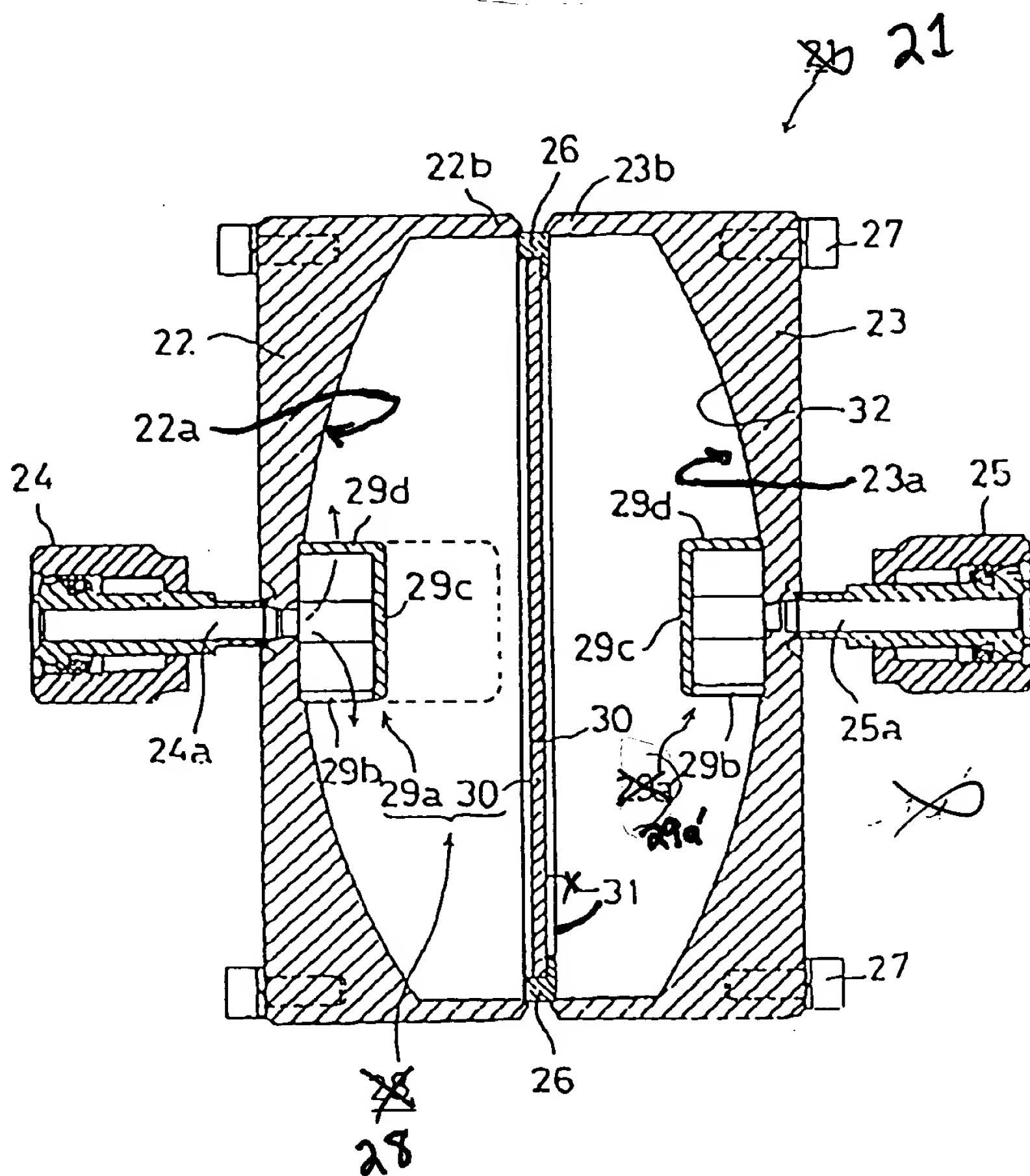


Fig. 44

Fig. 44

~~33~~ 33

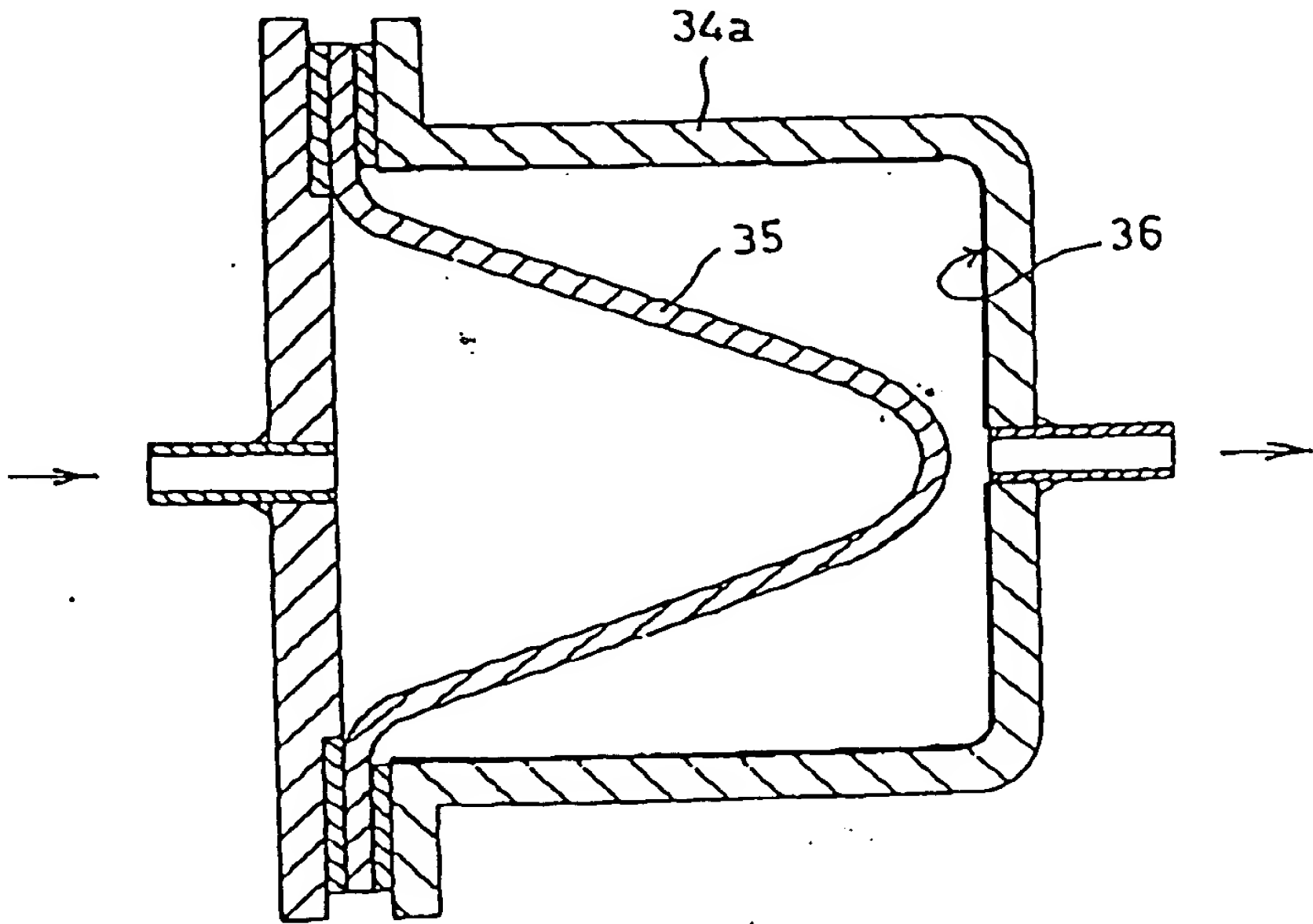


Fig. 45

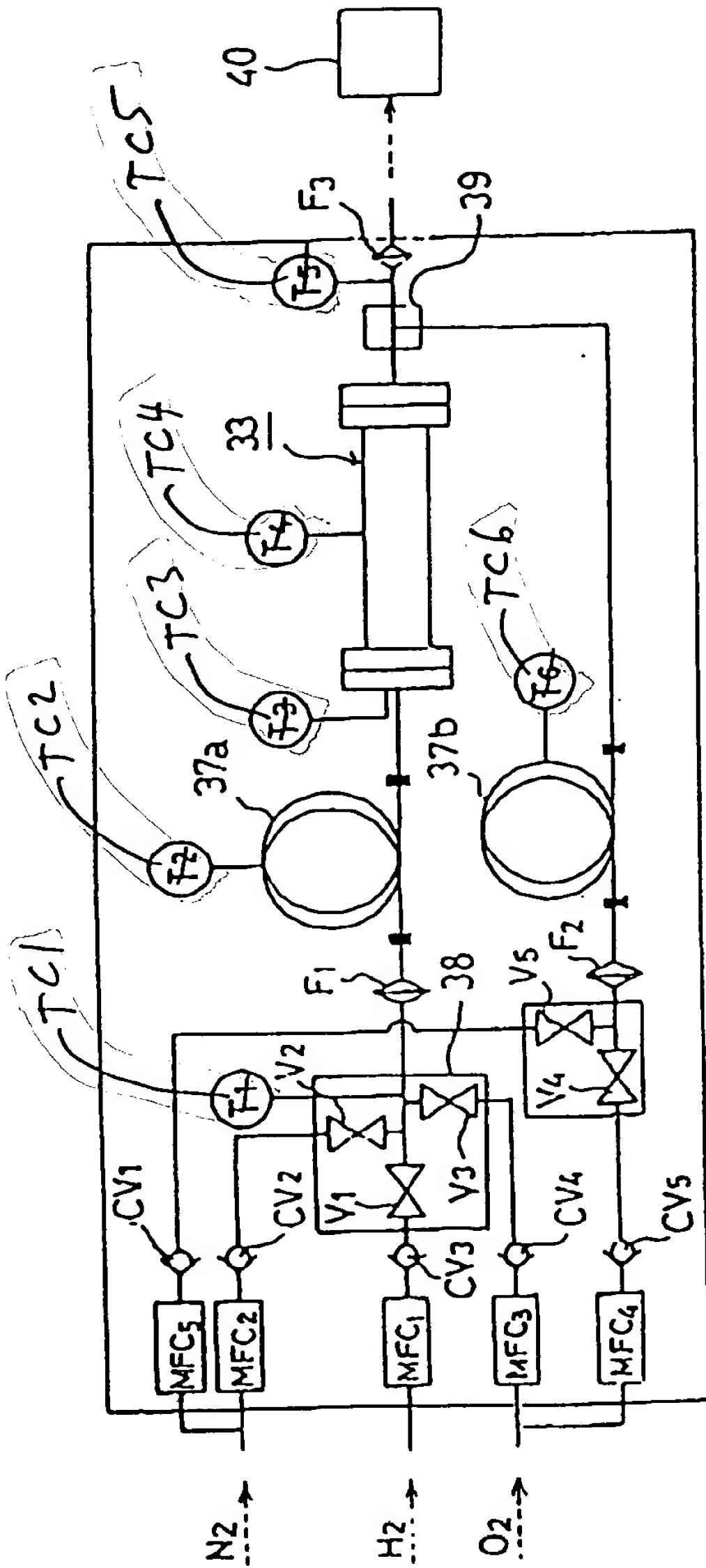


Fig. 46
46

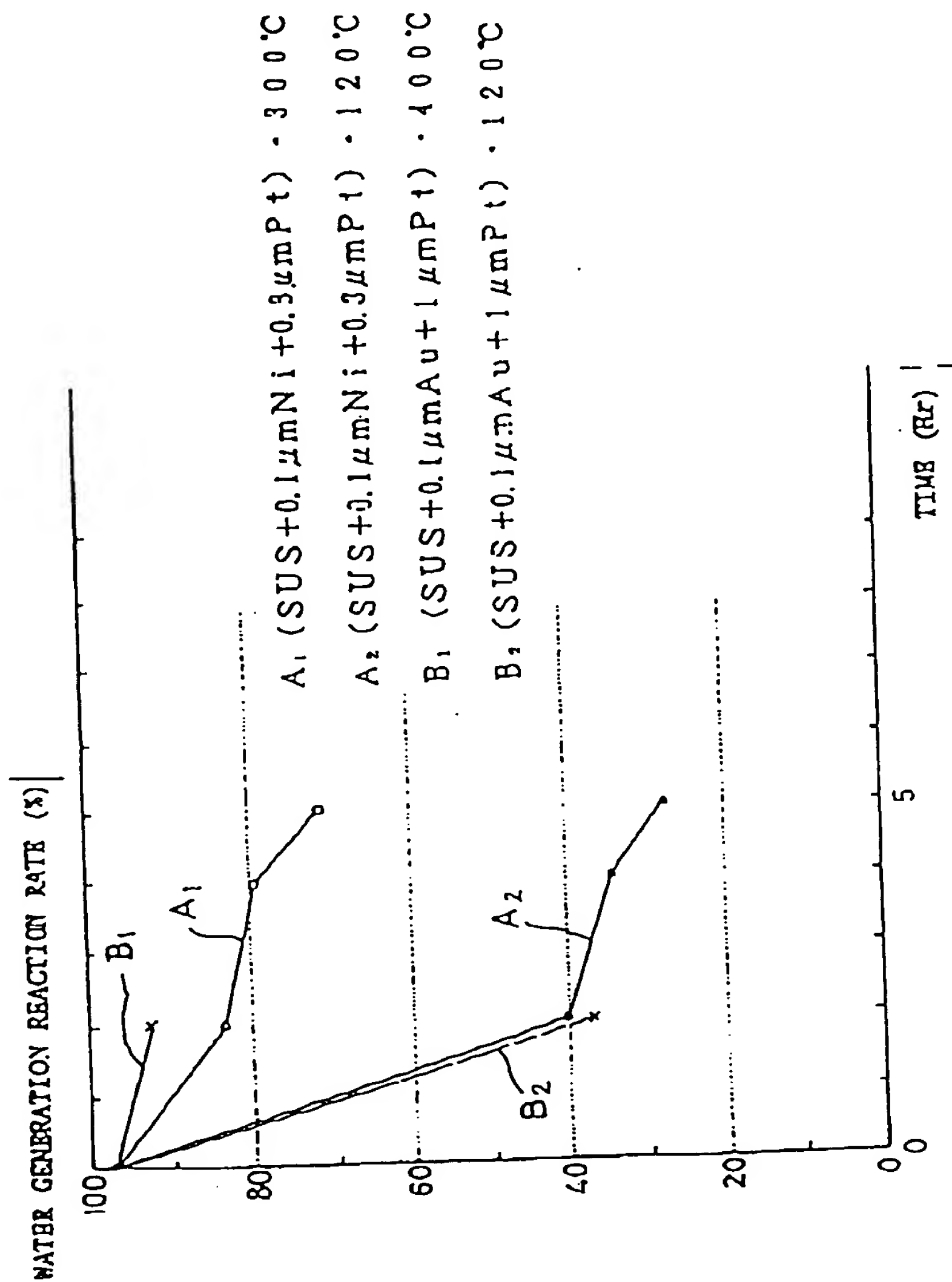


Fig. 47

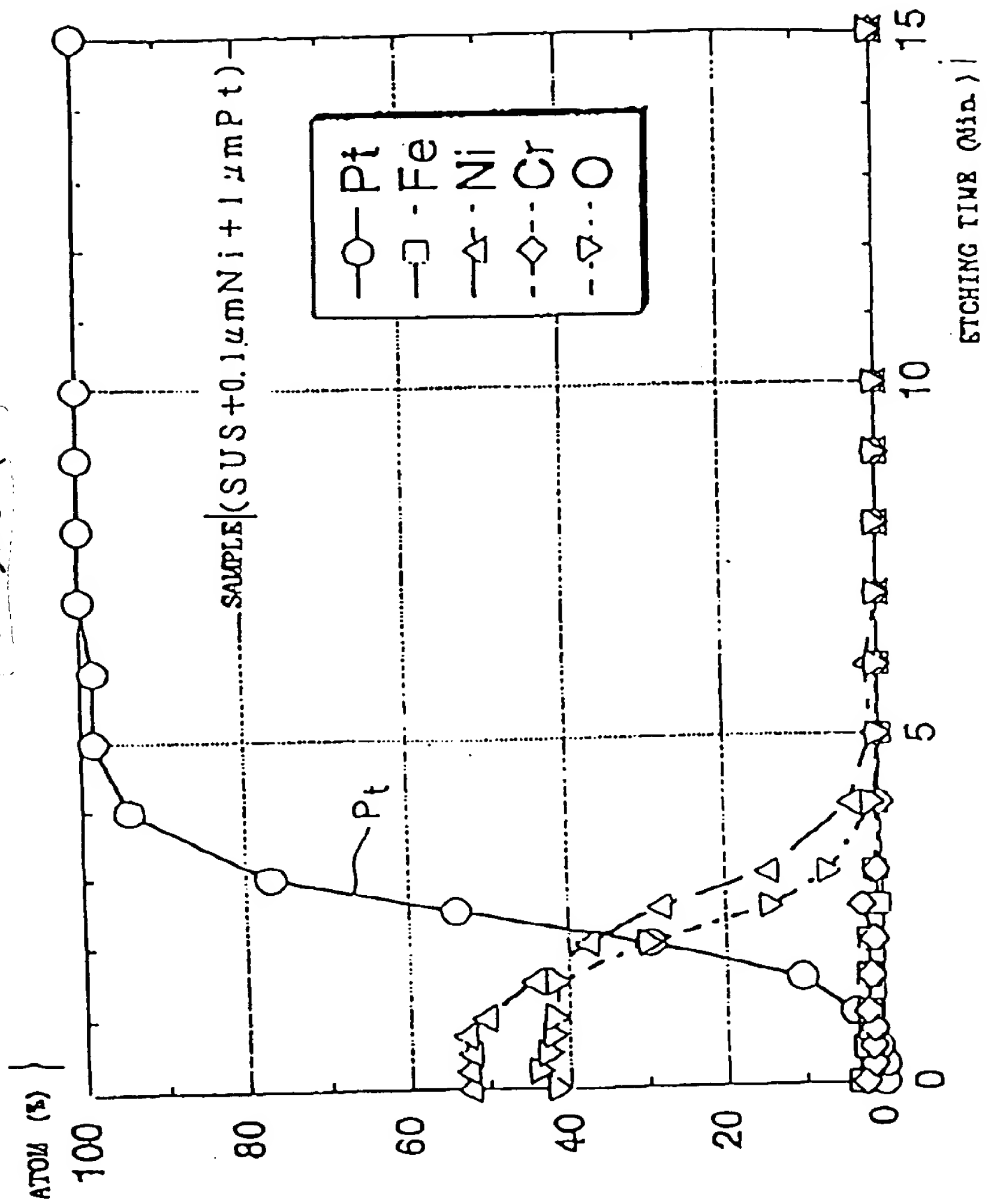


Fig. 4-8
 48

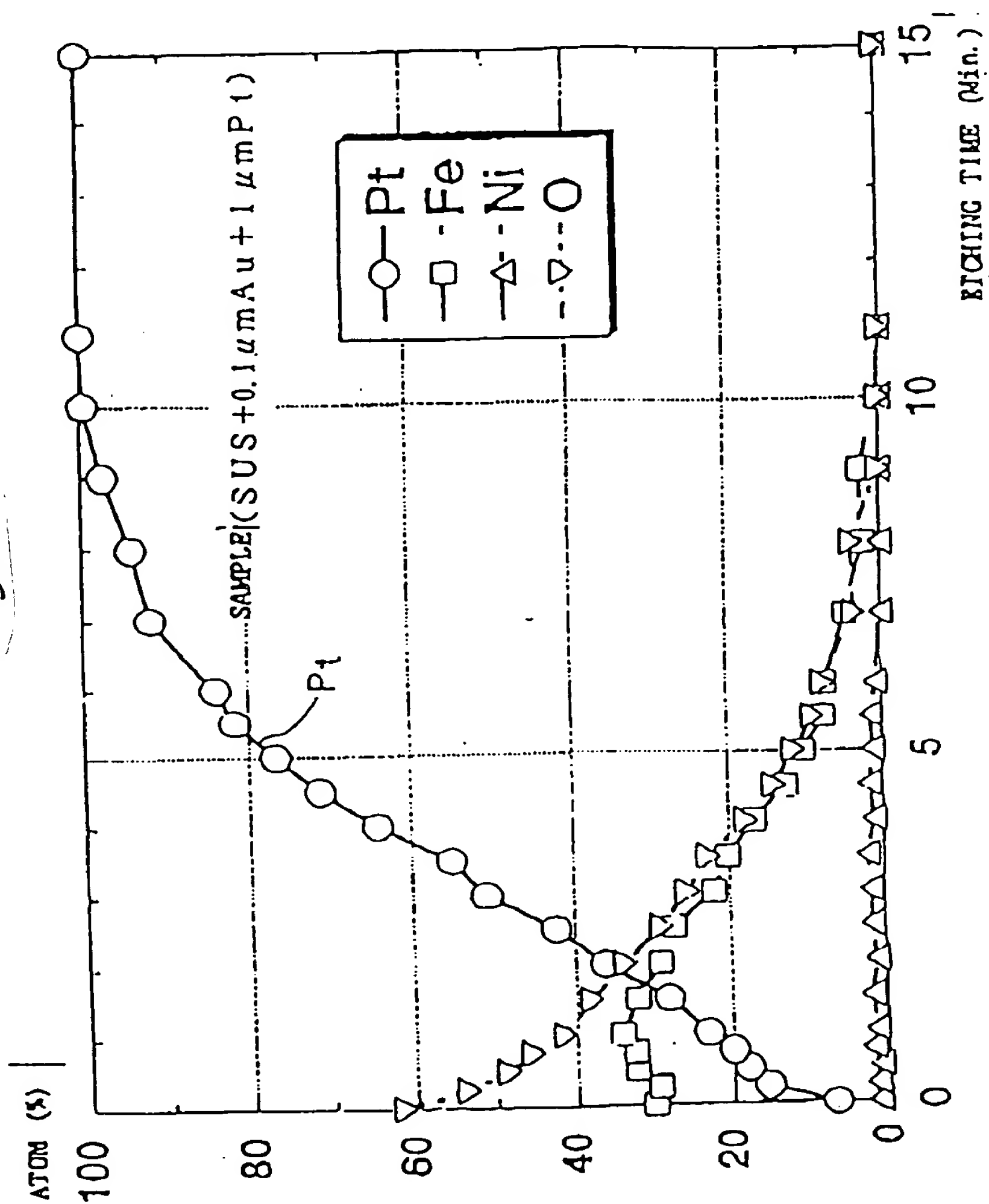


Fig. 49

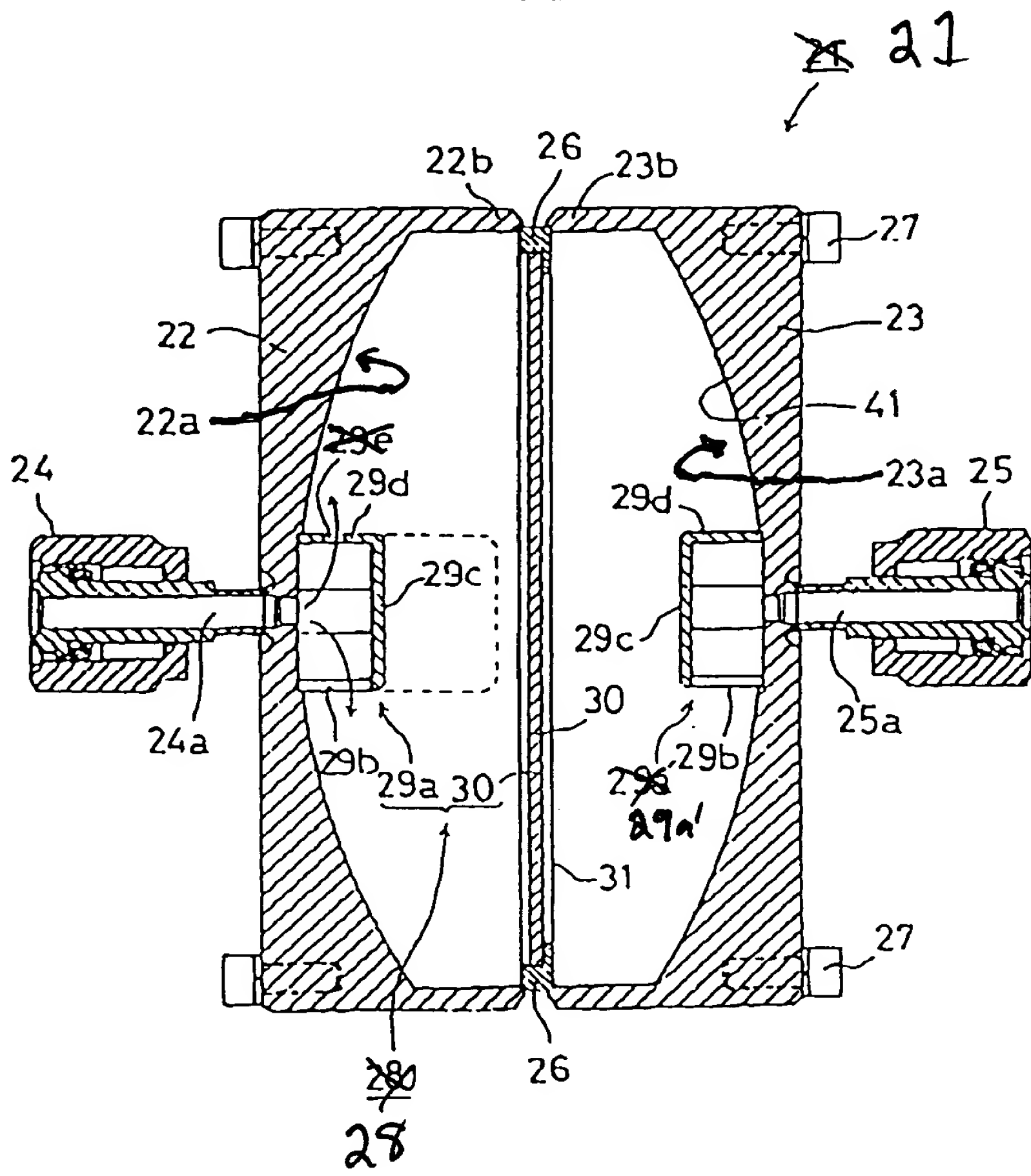




Fig. 50
~~Fig. 50~~

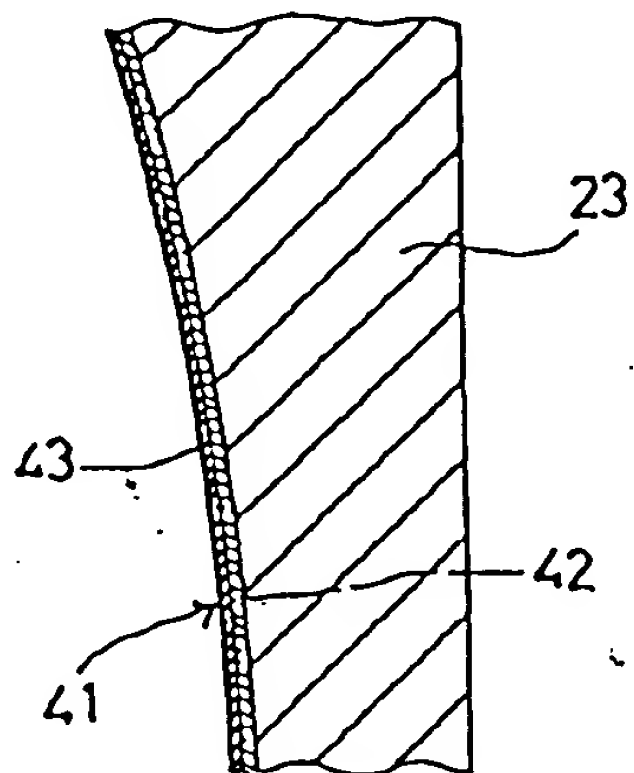


Fig. 51
~~Fig. 51~~

WATER GENERATION REACTION RATE (%)

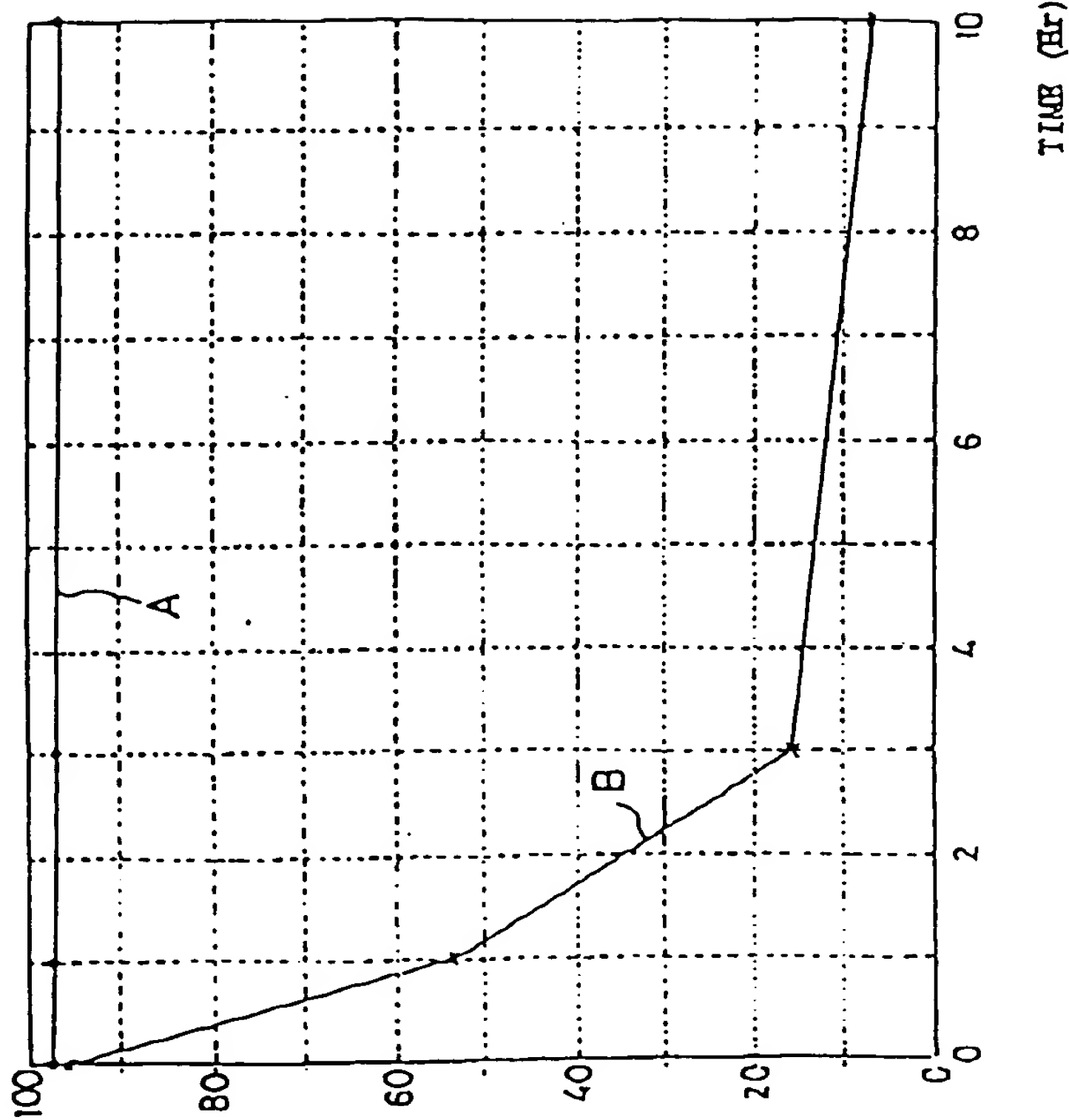


Fig. 52
~~52~~

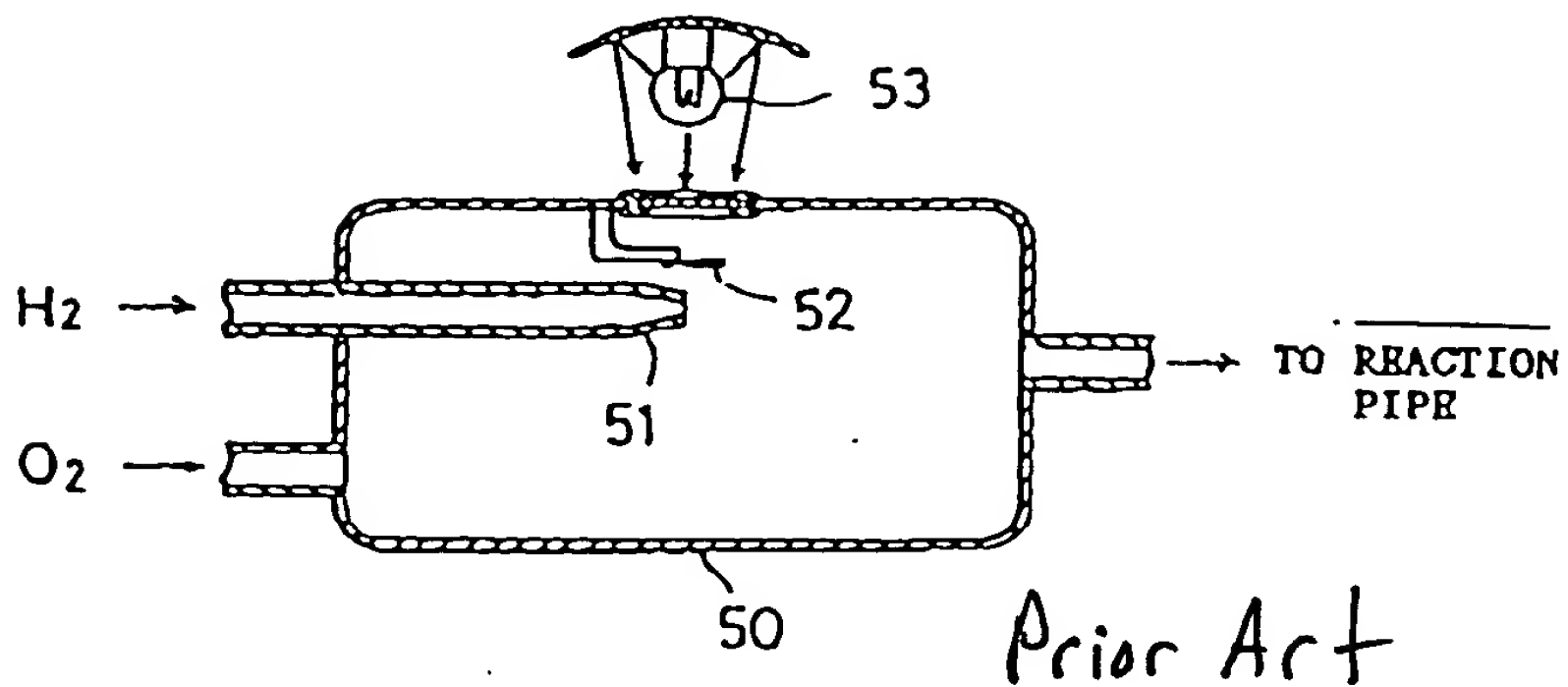


Fig. 53
~~53~~

